RESEARCH DIRECTORY



GURU NANAK INSTITUTE OF TECHNOLOGY

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RESEARCH DIRECTORY

(From 2003 to June, 2024)

- **ECE= Depatrment of Electronics & Communication Engineering;**
- **CSE= Depatrment of Computer Science & Engineering;**
- **IT= Depatrment of Information Technology;**
- **EE= Depatrment of Electrical Engineering;**
- **AEIE= Depatrment of Applied Electronics & Instrumentation Engineering;**
- **FT= Department of Food Technology;**
- **ASH= Depatrment of Applied Science & Humanities;**
- **CA= Depatrment of Computer application;**
- **MBA = Department of Masterof Business Administration;**
- **HM= Depertment of Hospital Management.**

RESEARCH AREAS

- **ECE-Areas** # Biomedical Signal Processing, Digital Image Processing, Ultra Wideband (UWB) microstrip Filter, Multiband microstrip Antennas, Signal Integrity/EMC.

- **CSE-Areas#** Image Processing, Wireless Sensor Networks, Evolutionary Computing, Wireless networking, Bioinformatics.

- **IT-Area#** Green Computing, Analog VLSI design, Vehicular ADHOC Network, NoC

- **EE-Areas#** Power Electronics & Renewable Energy Sources, Control Systems

- **AEIE-Areas#** Biomedical Signal Analysis, Optical Memory Design, BMI, Robust model reference adaptive control, Blind Source Separation (BSS) of Speech Signal, Fault Detection of PMSM

- **FT-Area#** Development of Herbal Beverages and Quality Evaluation, Wine Fermentation, Extraction of Pectin from Citrus peel ; Value added Food Product Development viz. Carrot Powder Fortified Biscuit; Herbal Ice Cream

- **ASH-Areas#** Physics, Chemistry, Mathematics, Mechanical Engineering.

- **CA- Areas#** Data mining, Network security, Cloud computing**,** Opinion Mining using Fuzzy Logic, Soft Computing

- **MBA- Areas#** Brand Management, Buy Back of Shares, Capacity utilize norm in Cement Industry.

- **HM- Areas#** Waste reduction, Training needs assessment (TNA).

FACULTY PUBLICATION

(From 2003 to June, 2024)

Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/ Conference	Total
CSE	4	69	126	121	320
ECE	0	47	145	119	311
AEIE/ ECS	1	21	22	51	95
EE	1	40	78	65	184
IT	0	10	71	59	140
ASH	16	54	73	71	214
FT	50	169	118	69	406
CA	0	04	36	14	54
FMS	4	04	01	02	11
TOTAL	76	418	670	571	1735

FACULTY PUBLICATION SUMMARY BREAKUP

(2003 - June,2024)

Academic Year	Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
2023-24	CSE	0	1	24	16	41
	ECE	0	0	26	9	35
	ECS	0	2	3	4	9
	EE	0	8	11	3	22
	FT	0	10	7	4	21
	IT	0	0	18	2	20
	ASH	1	2	19	17	39
	CA	0	2	8	6	16
		1	25	116	61	203
2022-23	CSE	0	1	12	14	27
	ECE	0	7	17	15	39
	ECSE	0	1	2	1	4
	EE	0	7	2	7	16
	FT	0	4	7	6	17
	IT	0	0	11	6	17
	ASH	1	8	3	6	18
	CA	0	0	0	0	0
		01	28	54	55	138
2021-22	CSE	0	0	15	9	24
	ECE	0	8	25	2	35
	AEIE	0	0	0	2	2
	EE	0	2	10	8	20
	FT	1	0	8	3	12
	IT	0	0	2	6	8
	ASH	0	0	6	0	6
	CA	0	0	0	2	2
	BHM	0	0	0	0	0
		1	10	66	32	109

2020-21	CSE	0	0	6	14	20
	ECE	0	0	20	21	41
	AEIE	0	0	4	4	8
	EE	0	0	10	4	14
	FT	0	0	17	0	17
	IT	0	0	3	4	7
	ASH	0	2	5	6	13
	CA	0	0	2	0	2
		0	2	67	53	122
2019-20	CSE	0	0	9	21	30
	ECE	0	0	17	17	34
	AEIE	0	0	1	8	9
	EE	0	0	2	33	35
	IT	0	0	0	9	9
	ASH	0	0	3	4	7
	FT	0	0	7	15	22
	CA	0	0	1	3	4
		0	0	41	110	151
2018-19	CSE	0	2	6	6	14
	ECE	0	4	9	8	21
	AEIE	0	0	1	3	4
	EE	0	2	4	3	9
	IT	0	0	6	5	11
	ASH	0	1	3	4	8
	FT	0	9	5	0	14
	CA	0	0	0	0	0
		0	18	34	29	81
2017-18	CSE	0	0	2	5	7
	ECE	0	3	8	16	27
	AEIE	0	0	1	3	4
	EE	0	5	2	5	12
	IT	0	0	6	4	10
	ASH	1	3	3	5	12
	FT	0	15	16	1	32

	CA	0	0	0	0	0
		1	26	38	39	104
2016-17	CSE	0	4	7	6	17
	ECE	0	0	1	12	13
	AEIE	0	0	3	4	7
	EE	0	0	6	1	7
	IT	0	2	7	3	12
	ASH	1	6	8	8	23
	FT	11	25	8	12	56
	CA	0	0	0	0	0
		12	37	40	46	135
2015-16	CSE	0	0	16	3	19
	ECE	0	0	13	4	17
	AEIE	0	0	1	4	5
	EE	0	0	12	0	12
	IT	0	0	7	5	12
	ASH	2	2	3	4	11
	FT	6	8	1	17	32
	CA	0	0	9	1	10
		8	10	62	38	118
2014-15	CSE	0	0	10	2	12
	ECE	0	1	7	9	17
	AEIE	0	1	2	9	12
	EE	0	1	13	1	15
	IT	0	0	5	2	7
	ASH	3	0	11	2	16
	FT	8	19	2	9	38
	CA	0	0	11	1	12
		11	22	61	35	129
2013-14	CSE	0	0	9	6	15
	ECE	0	0	3	0	3
	AEIE	0	3	2	1	6
	EE	0	0	0	0	0

	IT	0	0	3	3	6
	ASH	1	2	7	1	11
	FT	4	12	3	0	19
	CA	0	0	4	0	4
	FMS	0	0	1	0	1
		5	17	32	11	65
2012-13	CSE	0	13	6	6	25
	ECE	0	12	2	5	19
	AEIE	0	6	0	2	8
	EE	0	4	0	0	4
	IT	0	3	2	2	7
	ASH	1	9	3	3	16
	FT	8	21	10	0	39
	CA	0	1	0	0	1
	FMS	0	1	0	0	1
		9	70	23	18	120
2011-12	CSE	0	20	0	4	24
	ECE	0	7	5	3	15
	AEIE	0	4	0	5	9
	EE	0	2	2	0	4
	IT	0	5	0	5	10
	ASH	1	5	2	0	8
	FT	9	21	15	1	46
	CA	0	0	0	0	0
	FMS	1	0	0	2	3
		11	64	24	20	119
2010-11	CSE	0	9	4	3	16
	ECE	0	4	4	4	12
	AEIE	0	1	1	3	5
	EE	1	5	0	0	6
	IT	0	0	1	3	4
	ASH	2	4	4	3	13
	FT	3	17	8	1	29
	CA	0	1	1	1	3
	FMS	1	0	0	0	1
		7	41	23	18	89

2009-10	**CSE**	**0**	**5**	**0**	**3**	**8**
	ECE	**0**	**2**	**0**	**0**	**2**
	AEIE	**1**	**1**	**0**	**0**	**2**
	EE	**0**	**2**	**0**	**0**	**2**
	IT	**0**	**0**	**1**	**0**	**1**
	ASH	**0**	**2**	**0**	**2**	**4**
	FT	**0**	**2**	**6**	**0**	**8**
	CA	**0**	**0**	**0**	**0**	**0**
	FMS	**1**	**1**	**0**	**0**	**2**
		2	**15**	**7**	**5**	**29**
2008-09	**CSE**	**1**	**5**	**0**	**1**	**7**
	ECE	**0**	**1**	**0**	**0**	**1**
	AEIE	**0**	**0**	**0**	**1**	**1**
	EE	**0**	**2**	**0**	**0**	**2**
	IT	**0**	**0**	**0**	**0**	**0**
	ASH	**2**	**1**	**0**	**0**	**3**
	FT	**0**	**0**	**0**	**0**	**0**
	CA	**0**	**0**	**0**	**0**	**0**
	FMS	**1**	**2**	**0**	**0**	**3**
		4	**11**	**0**	**2**	**17**
2007-08	**CSE**	**0**	**0**	**0**	**0**	**0**
	ECE	**0**	**0**	**0**	**0**	**0**
	AEIE	**0**	**0**	**0**	**1**	**1**
	EE	**0**	**0**	**0**	**0**	**0**
	IT	**0**	**0**	**0**	**0**	**0**
	ASH	**0**	**0**	**0**	**0**	**0**
	FT	**0**	**0**	**0**	**3**	**3**
	CA	**0**	**0**	**0**	**0**	**0**
	FMS	**0**	**0**	**0**	**0**	**0**
		0	**0**	**0**	**4**	**4**
2006-07	**CSE**	**0**	**3**	**0**	**2**	**5**
	ECE	**0**	**2**	**0**	**1**	**3**
	AEIE	**0**	**0**	**0**	**0**	**0**
	EE	**0**	**0**	**0**	**0**	**0**
	IT	**0**	**0**	**0**	**0**	**0**

	ASH	**0**	**0**	**0**	**2**	**2**
	FT	**0**	**4**	**0**	**0**	**4**
	CA	**0**	**0**	**0**	**0**	**0**
	FMS	**0**	**0**	**0**	**0**	**0**
		0	**9**	**0**	**5**	**14**
2005-06	**CSE**	0	4	0	1	**5**
	ECE	0	0	0	0	**0**
	AEIE	0	0	0	0	**0**
	EE	0	0	0	0	**0**
	IT	0	0	0	0	**0**
	ASH	0	2	0	1	**3**
	FT	0	1	0	2	**3**
	CA	0	0	0	0	**0**
	FMS	0	0	0	0	**0**
		0	**7**	**0**	**4**	**11**
2004-05	**CSE**	**1**	**1**	**0**	**0**	**2**
	ECE	**0**	**0**	**0**	**0**	**0**
	AEIE	**0**	**1**	**0**	**0**	**1**
	EE	**0**	**0**	**0**	**0**	**0**
	IT	**0**	**0**	**0**	**0**	**0**
	ASH	**0**	**5**	**0**	**2**	**7**
	FT	**0**	**2**	**0**	**0**	**2**
	CA	**0**	**0**	**0**	**0**	**0**
		1	**9**	**0**	**2**	**12**
2003-04	**CSE**	**2**	**1**	**0**	**1**	**4**
	ECE	**0**	**0**	**0**	**0**	**0**
	AEIE	**0**	**1**	**0**	**1**	**2**
	EE	**0**	**0**	**0**	**0**	**0**
	IT	**0**	**0**	**0**	**0**	**0**
	ASH	**1**	**2**	**0**	**1**	**4**
	FT	**0**	**4**	**0**	**2**	**6**
	CA	**0**	**0**	**0**	**0**	**0**
		3	**8**	**0**	**5**	**16**

2023-24

DEPARTMENT: CSE

International Journal

- **Mahamuda Sultana, Suman Bhattacharya,"Investigating Computational Models for Diagnosis and Prognosis of Sepsis based on Clinical Parameters:Opportunities, Challenges and Future Research Directions"** published in Journal of Intensive Medicine, P-ISSN 2097-0250, Peer reviewed ,**SCOPUS indexed**, April, 2024(Accepted)

- **Suman Bhattacharya , "A Review of E-Learning Based Recommender Systems through Multimodal Sentiment Analysis"** published in International Journal of Computational Systems Engineering, ISSN 2046-3391, Peer reviewed ,**SCOPUS indexed** ,January,2024

- **Mahamuda Sultana, Suman Bhattacharya,"XAI–reduct: accuracy preservation despite dimensionality reduction for heart disease classification using explainable AI."** *The Journal of Supercomputing*: Volume 79, pages 18167–18197, https://doi.org/10.1007/ s11227-023-05356-3 (May 2024)Springer***[SCI indexed, Impact Factor:3.3]***

- **Srabani Biswas, Ipsita Saha, Abanti deb" A. Plant disease identification using a novel time-effective CNN architecture"**. *Multimed Tools Appl* (March, 2024). Springer. https://doi.org/10.1007/ s11042-024-18822-8 ***[SCI indexed,Impact Factor:3.6]***

- **Ipsita Saha, "**An adoption of sustainable business model: An empirical study identifying the success factors of IT service sector organizations", International Journal of Technology Management & Sustainable Development, March 2024, 22(3), 319-341, https://doi.org/10.1386/ tmsd_00080_1 ***[Scopus]***

- **Mandira Banik, and Sanjay Kumar. "Blockchain-based public key encryption with keyword search for medical data sharing in cloud environment**." *Journal of Information Security and Applications* 78 (2023): 103626, Volume 78, (**Scopus Indexed**) November 2023

- **Suman Bhattacharya, Mahamuda Sultana, Nilanjana Adhikari**, Arghadip Biswas, Suman Saha, Trishita Mukherjee, Sayantan Roy Chowdhury, Vaskar Paul, Kaustav Chatterjee "**A Deep Learning Framework for Speakers' Confidence Level Analysis**" published in Journal of Technology

(International Journal), volume-12, Issue-3, ISSN-1012-3407,Impact factor-5.1, March 2024 [**SCOPUS Indexed**]

- **Sourish Mitra, Rafiqul Islam, Bidyutmala Saha, "IoT Based Suitable Crop Identification Technique after Analyzing soil and Predicting local Weather"**published in Gradiva Review Journal(International Journal), GRJ volume-9, Issue-11, ISSN -0363-8057 Impact factor-6.34, November 2023

- **Bidyutmala Saha,Sourish Mitra,Sayan Nath**,Sandipan Mukhopadhyay,Shampurna Rakshit,Riddhi Lahiri,Diprit Turul, Ujan Ghosh "**Distributed Denial of Service Attack for Virtual Cloud Computing: A Review**" published in Gradiva Review Journal(International Journal), GRJ volume-10, Issue-3, ISSN- 0363-8057,Impact factor-6.1, March 2024 **[SCOPUS]**

- **Sayan Nath,Bidyutmala Saha,Sourish Mitra**, Ayan Das,Sayantanee Santra "**Integrated Aided Learning System for Deaf-Dumb People**", published in Journal of Technology (International Journal), volume-12, Issue-3, ISSN-1012-3407,Impact factor-5.1, March 2024 **[SCOPUS]**

- **Bidyutmala Saha, Sayan Nath, Sourish Mitra**, Aritra Chakraborty,Monotopa Bhattacharya,Angana Kundu,Supriyaja Roy,Prayashi Bhattacharya, "**A REVIEW ON FOG AND CLOUD COMPUTING**", published in Journal of Xidian University (International Journal), volume-18, Issue-4, ISSN No: 1001-2400,Impact factor-5.4, April 2024 **[SCOPUS]**

- **Shreeja Sinha, Srabani Biswas, Sayani Chandra "A Distributed Approach for Energy Hole Minimization in Wireless Sensor Networks"** published in GRADIVA REVIEW JOURNAL, VOLUME 10 ISSUE 6, ***(Scopus indexed and UGC – CARE (Group – II) listed)***, Page No: 122-125, ISSN No: 0363-8057, Impact factor-6.3, June 2024

- **Ipsita Saha, Srabani Kundu, Sayani Chandra, "Role of Fog Computing, Cloud computing and Big data for Healthcare Applications in line with Industry 4.0"** published in Journal of Technology, VOLUME 12 ISSUE 6, (*Scopus indexed and UGC – CARE (Group – II) listed)*, ISSN: 1012-3407, June 2024

- **Sumit Kumar Banerjee, Priyanka Chakraborty, Rafiqul Islam "AI based Geospatial Vehicle Prediction"** published in Journal of System Engineering, and Electronics, VOLUME 36, ISSUE 6, *(**Scopus Indexed** and UGC-CARE (Group - II) listed)*, ISSN: 1671-1793, June 2024.

- **Sumit Kumar Banerjee "Dynamic Multi-class Leaf Problem Identification based on Deep Learning**" published in Journal of Technology, VOLUME 12 ISSUE 6, (***Scopus indexed*** *and UGC – CARE (Group – II) listed)*, ISSN: 1012-3407, June 2024

- **Moloy Dhar, Pallabi Das, Nirupam Saha "Comparison Based On 6 Different Architectures About Image Captioning"** published in Journal of Technology, VOLUME 12 ISSUE 5, 2024 (Scopus indexed and UGC – CARE (Group – II) listed), ISSN: 1012-3407, May 2024

- **Moloy Dhar "Delivery Allocation of Essential Medicines Using Particle Swarm Optimization**" published in Journal of Technology, VOLUME 12 ISSUE 6, (Scopus indexed and UGC – CARE (Group – II) listed), ISSN: 1012-3407, June 2024

- **Moloy Dhar , Bidyutmala Saha , Nirupam Saha "A Machine Learning Approach to Identify Customers for Subscribing Term Deposit**" published in Alochana Journal, Ugc Care Group - I Journal, ISSN: 2231-6329, May 2024

- **Moloy Dhar, Suparna Biswas "Oral Cancer Detection Using Deep Learning Technique: A Novel Approach"** published in Journal of Technology, VOLUME 12 ISSUE 6, (Scopus indexed and UGC – CARE (Group – II) listed), ISSN: 1012-3407, June 2024

- **Priyanka Chakraborty, Rafiqul Islam, Nirupam Saha "Oral Disease Classification Using Convolution Neural Network with Dilation**" published in Gradiva Review Journal (International Journal), GRJ volume-10, Issue-3, (Scopus indexed and UGC – CARE Approved (Group – II)) ISSN-0363-8057, March 2024

- **Pallabi Das, Madhurendra Singh, Aditya Anand, Devesh Kumar, Nainshi Kumari, Ravi Kumar, Adrija Saha, "Stock Market Price Prediction using Machine Learning Based Technical Analysis**", published in Journal of Systems Engineering and Electronics (International Journal), DOI:20.14118.jsee.2024.V34I6.1708, Volume 34 Issue 6, June 2024.

- **Ms. Mandira Banik , Subhankhi Paul , Nandini Sawdagar , Shreya Mukherjee, Tanushka Ghosh "POCKET HEALTH CARE",** published in JOURNAL OF TECHNOLOGY, volume 12 issue 4,2024,ISSN 1012-3407,June 2024. (Scopus indexed)

- **Amrut Ranjan Jena, Madhusmita Mishra, Ritam Ghosh, Labanya Nayak, Arkodeep Dey "A Framework for Classifying Brain Tumors using Convolution Neural Networks and Open-Source Computer Vision"** Volume-II, Issue-VI, IISN-2583-6129, July-2023.

- **Mahmuda Sultana, Suman Bhattacharya "Gesture based Volume Controlling System using Hand Gesture"** published in ISJEM Journal, Volume-II, Issue-VI, IISN-2583-6129, July-2023.

International Conferences

- **Sultana, Mahamuda, Suman Bhattacharya, Ananjan Maiti, Adarsh Pandey, and Diganta Sengupta. "A Deep CNN Framework for Oral Cancer Detection Using Histopathology Dataset."** In *International Conference on Computational Intelligence in Communications and Business Analytics*, pp. 239-248. Cham: Springer Nature Switzerland, 2023.

- Bipronil Ghosh, Anuska Mukherjee, Debjoty Chandra, **Nilanjana Adhikari, Suman Bhattacharya, Mahamuda Sultana, Sourish Mitra,Sayan Nath "Botanic Renaissance: Empowering Ayurveda through YOLOv8 - A Technological Symphony of Plant Identification, Commerce, and Conservation"** in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.

- Ipsita Nayak1, Moulima Mukherjee, Satyam Kumar Chhetri, Shivam Chaudhary, **Mahamuda Sultana, Suman Bhattacharya, Nilanjana Adhikari " Stock Price Prediction: A Comparative Study using Various Models of Machine Learning and Deep Learning"** in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.

- Arnab Chowdhury, Priyanshu Chakraborty, Tridha Das, Rishav Gupta, Adarsh Pandey, Dipanjan Biswas, **Mahamuda Sultana, Suman Bhattacharya " Yield Prediction and Agricultural Crop Recomendation –A Machine Learning Approach"** in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.

- **Nilanjana Adhikari, Suman Bhattacharya and Mahamuda Sultana "Single-Frame Image based Multi-Variant Bird Species Identification and Classification"** in 5th DOCTORAL SYMPOSIUM ON COMPUTATIONAL INTELLIGENCE (DoSCI-2024) 10 May 2024.(Springer LNSS series, SCIMago).

Book Chapter

- **Sumit Kumar Banerjee, Nilanjana Adhikari, Mahamuda Sultana and Suman Bhattacharya "FISH SPECIES IDENTIFICATION AND CLASSIFICATION: A DEEP LEARNING APPROACH" "Futuristic Trends in Artificial Intelligence"** ISBN:IIP Series, Volume 3, 2023

- **Sayani Chandra, Sangeeta Bhattacharya, and Mriganavi Dutta. "Depression inducing emotion detector in online social networks."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Mandira Banik, , Sudeep Ghosh, Amrut Ranjan Jena, and Hrittika Maity. "Recognizing chemical structures drawn by hand using deep learning algorithms and predict probable chemical structure."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Amrut Ranjan Jena, , Santanu Kumar Sen, Madhusmita Mishra, Shrutarba Banerjee, Nupur Dey, and Ipsita Saha. "A comparative analysis of financial fraud detection in credit card by decision tree and random forest techniques."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Amrut Ranjan Jena, Madhusmita Mishra, Dharmpal Singh, Moloy Dhar, and Mandira Banik. "A study of predictive analysis through machine learning for data security."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Rupak Chakraborty, , Sourish Mitra, Rafiqul Islam, Bidyutmala Saha, and Nirupam Saha. "A new composite kernel-based classification approach of hyperspectral images."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Moloy Dhar, , Amrut Ranjan Jena, and Paromita Saha. "Caption an object using the pre-trained deep learning model for single shot multi-box detector."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Chandra, Sayani, Sangeeta Bhattacharya, and Mriganavi Dutta. "Depression inducing emotion detector in online social networks."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Sangeeta Bhattacharya, Sayani Chandra, and Debasish Dhar. "Customer behaviour forecasting using predictive analysis of sales data."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Das, Pallabi, and Rajashree Nayak. "Preprocessing retinal fundus images to localize lesions for identification of diabetic eye diseases."** AIP Conference Proceedings. Vol. 2876. No. 1. AIP Publishing, 2023.

- **Das, P., Nayak, R. (2023). Explanable CAD System for Early Detection of Diabetic Eye Diseases: A Review.** In: Sharma, S., Subudhi, B., Sahu, U.K. (eds) Intelligent Control, Robotics, and Industrial Automation. RCAAI 2022. Lecture Notes in Electrical Engineering, vol 1066. Springer, Singapore. https://doi.org/10.1007/978-981-99-4634-1_50, November, 2023

National Conferences

- **Moloy Dhar "Secure And Advance Online Election System**" In Machine Learning in Healthcare Applications (MLHA 2024) , organized by Department of Electronics & Communication Engineering, Guru Nanak Institute of Technology, 18-19, April 2024

DEPARTMENT: ECE

International Journal

- **Swarup Kumar Mitra,"Overcoming Thermocouple Non-linearity: A Novel Algorithmic Framework for Improved Temperature Sensing"** published in Journal of The Institution of Engineers (India): Series B, July 2024, https://doi.org/10.1007/s40031-024-01116-w (Scopus Indexed).
- N. Byabarta, A. Chatterjee, **Swarup Kumar Mitra**, "**Radial Basis Function Method for Linearization of Thermocouple Data: An Efficient and Accurate Approach"**,published in Journal of The Institution of Engineers (India): Series B , December 2023, Issue Date - February, 2024, 105(1), pp. 157–163.(Scopus Indexed). DOI-https://doi.org/10.1007/ s40031-023-00957-1

- Rathindra Nath Biswas, Anurup Saha, **Swarup Kumar Mitra**, Mrinal Kanti Naskar "**Design and implementation of anchor coprocessor architecture for wireless node localization applications**" published in Peer-to-Peer Networking and Applications., Volume 17, pages 961–984, (2024) 07 February 2024(SCI Indexed). DOI - https://doi.org/10.1007/s12083-024-01640-y

- Trilochan Patra, **Swarup Kumar Mitra**, **"Performance Evaluation of a Maximum-Likelihood Optimum Receiver"** published in Advances in Transdisciplinary Engineering, December 2023, 42, pp.1196–1204.(Scopus), DOI:10.3233/ATDE231063 [In book: Applied Mathematics, Modeling and Computer Simulation]

- Nilanjan Byabarta, Abir Chatterjee, **Swarup Kumar Mitra**, "**Advanced Thermocouple Linearization Method using advanced polynoimimal fitting**" published in Journal of Mechanics of Continua and Mathematical Sciences, January 2024, Vol-19(1), pp. 47–58 .(Scopus indexed). https://doi.org/10.26782/jmcms.2024.01.00004

- **Palasri Dhar, Sunipa Roy" Trench Dual Gate Junctionless Field Effect Transistor"**2024, Journal of Integrated Circuits and Systems, DOI: https://doi.org/10.29292/jics.v19i1.748. Vol. 19 No. 1 (March 2024)

- **Palasri Dhar,Sunipa Roy "Impacts of Cavity Thickness and Insulating Material on Dielectric Modulated Trench Junction-less Double Gate Field Effect Transistor for Biosensing Applications"**,Current Materials Science,volume 17, issue , pages 1-9, year 2024, ISSN:2666-1454/2666-1462,doi:10.2174/0126661454274311231011070702.

- **Sunipa Roy, Swapan Das, Nabaneeta Banerjee, "Design optimization of microheater for gas sensor using genetic algorithm"** published in AIP Conference Proceeding, Vol. 2876, PP: 030004-1–030004-7, September, 2023, https://doi.org/10.1063/5.0166728

- **Avali Banerjee, Surajit Basak, Koustab Maity, Debasis Banerjee, "A Review on IoT Based Smart Agriculture",** Journal of Harbin Engineering University, Vol 45, No. 4, April 2024, Page: 535-547, ISSN: 1006-7043.

- **Surajit Basak, Soma Boral, Arun Kumar Mondal, Soumyadeep Ghosh and Anisha Roy, "Tele-operated Ground Vehicle: A Surveillance to War Field",** YMER Journal, vol. 22, no. 12, pp 1469-1476, Dec. 2023. ISSN : 0044-0477.

- **Suparna Biswas, Application of Image Processing for COVID-19: A Review, Journal of Coronaviruses**, VOLUME 5, , NUMBER , 2024,ISSN: 2666-7975 (Online) - ISSN: 2666-7967 (Print) 10.2174/0126667975301173240607114109, June 2024

- **Suparna Biswas, Moloy Dhar, "Oral Cancer Detection Using Deep Learning Technique: A Novel Approach"** published in Journal of Technology, VOLUME 12 ISSUE 6,, ISSN: 1012-3407, June 2024.

- **Suparna Biswas, Suparna Karmakar, "An Efficient LSTM Based Model for Rainfall Prediction"** Journal For Basic Sciences. June 2024. IF:65.7,ISSN: 1006-8341 Volume 24, Issue 6, June 2024 Page no 393-406.

- **Suparna Biswas, Sayan Roy Chaudhuri, Sumedha Bhattacharya, Gautam Kr Das, Sumangal Bhaumik, Titas Bhaumik, "Machine Learning Based ECG Signal Classification",** Journal For Basic Sciences, Volume 24, Issue 1, pp. 367-2377, January 2024, ISSN NO : 1006-8341.

- **Nabaneeta Banerjee, Abir Mitra, Chandrima Banerjee, "Autonomous Drone-Based Medical Supply Delivery for Remote Regions"** published in Journal For Basic Sciences (JBS), VOLUME 24, ISSUE 6, pp: 506-514, ISSN: 1006-8341, June 2024, DOI:10.37896/JBSV24.6/3211 .

- **Nabaneeta Banerjee, Chandril Ghosh, Abir Mitra, "Cutting-Edge Medical Robotics: Transforming Modern Healthcare"** published in Journal For Basic Sciences (JBS), VOLUME 24, ISSUE 6, pp: 515-520, ISSN: 1006-8341, June 2024, DOI:10.37896/JBSV24.6/3212.

- **Suparna Biswas and Sayan Roy Chaudhuri, "Fuzzy Logic based Obstacle Avoiding Autonomous Robot "** Technische Sicherheit . ISSN NO: 1434-9728 Volume 24, Issue 3,June 2024. IF:6.1 . DOI:22.8342.TSJ.2023.V23.10.0. 1144

- **Suparna Biswas,Trishita Ghosh, Suparna Karmakar, "Congestion Control Method Using Vehicular Congestion Index by Reducing Messaging Broadcast Rate "** Journal of Systems Engineering and Electronics . ISSN NO: 1671-1793 Volume 34 ISSUE 6 2024, June 2024.

- **Suparna Biswas, Suparna Karmakar, Trishita Ghosh, Nikhil Kumar Rai, Vishal Shaw, Prince Singh "OCR Based Approach for Auto-Detection and Recognition of Vehicle Number Plate "** Heritage Research Journal Volume 72, Issue 4, March, 2024, ISSN No: 0474-9030.

- **Surajit Basak, Soma Boral, Arun Kumar Mondal, Soumyadeep Ghosh and Anisha Roy, "Tele-operated Ground Vehicle: A Surveillance to War Field",** YMER Journal (Scopus), VOLUME 22 : ISSUE 12 (Dec) - 2023, PP: 169-1476, DOI: 10.37896/YMER 22.12/B7, https://ymerdigital.com/archives/?cpage=6&issId=%202212

- **Surajit Basak, Anisha Roy, Suranjan Nandi, Ayush Sinha, Rupkatha Chatterjee and Aditya Roy, "Megatron: The Delivery Robot",** International Journal of Innovative Science and Research Technology, Volume 8, Issue 9, Sept. 2023, ISSN No:-2456-2165 (UGC Care)

- **Nabaneeta Banerjee, Chandrima Banerjee, Aritra Sarkar, "GPS based Identification System using Microcontroller"** International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 11, Issue 8, August. 2023, ISSN No:-2321-9653, (UGC Care)

- **Kaushik Roy, Antara Sarkar, Animesh Das, Ankita Roy, Sayan Roy, Adrita Roy, "Automatic Signal and Gate System",** International Journal for Research in Applied Science and Engineering Technology (IJRASET), December (2023), https://doi.org/10.22214/ijraset .2023.56980, (UGC Care)

- **Nabaneeta Banerjee, Sonali Podder, Sougata Dey, Soumyadip Mahapatra, Soumasis Das, Souramita Banik, "Automatic Irrigation System by 555 IC",** International Journal of Advances in Engineering and Management (IJAEM), ISSN: 2395-5252, December, 2023 (Accepted), (UGC Care)

- **Nabaneeta Banerjee, Abhishek Das, Abhishek Samanta, Abinash Kr. Mandal, Abhishek Kr. Thakur, Abhishek Kumar, "Clap Switch Circuit Using Ic 4017",** International Journal Of Creative Research (IJCRT), ISSN: 2320-2882, December, 2023 (Accepted), (UGC Care)

- **Nabaneeta Banerjee, Chandrima Banerjee, Susmit Das, Tushar Patra, Swagata Bhattacharya, "Solar Power Enabled Mobile Charger",** International Journal for Research in Applied Science & Engineering Technology (IJRASET), December, 2023 (Accepted), (UGC Care)

International Conferences

- **Suparna Biswas, Rabel Guharoy, Nanda Dulal Jana "Performance Analysis of Machine Learning Algorithms for the Detection of Epilepsy"** in the 1st IEEE International Conference on Multidisciplinary Research in Technology and Management – MRTM 23, organized by New Horizon College of Engineering, Bengaluru on 22nd & 23rd September 2023 (Scopus)

- **Sayan Roy Chaudhuri,Suparna Biswas; A real time health monitoring system for maintaining covid precautions: A step forward to innovation.** AIP Conf. Proc. 1 September 2023; 2876 (1): 030003. https://doi.org/10.1063/5.0167041(Scopus)

- **Suparna Biswas; Deep neural net based approach for air pressure prediction.** AIP Conference Proceedings 1 September 2023; 2876 (1): 020004. https://doi.org/10.1063/5.0166718. (Scopus)

Book Chapter

- **Suparna Biswas. (2024). IOT-Based Patient Monitoring System in Real Time.** In Fog Computing for Intelligent Cloud IoT Systems (eds C. Banerjee, A. Ghosh, R. Chakraborty and A.A. Elngar). https://doi.org/10.1002/9781394175345.ch13(Scopus)

- **Suparna Biswas. (2024). Application of IoT in Smart Farming and Precision Farming.** In Fog Computing for Intelligent Cloud IoT Systems (eds C. Banerjee, A. Ghosh, R. Chakraborty and A.A. Elngar). https://doi.org/10.1002/9781394175345.ch11(Scopus)

- **Palasri Dhar, Sunipa Roy," Ultra-conductive Junctionless Tunnel Field-effect Transistor-based Biosensor with Negative Capacitance"** Advanced Nanoscale MOSFET Architectures: Current Trends and Future Perspectives, Wiley-IEEE Press,May 2024, ISBN: 978-1-394-18895-6.

- **Antara Ghosal, Anurima Majumdar, Avali Ghosh, Sisir Kumar Das, Annapurna Das, . "An Array of Spiral Patch Antenna for WLan, WiMax and Wi-Fi Application",** IIP Series: "Futuristic Trends in Network & Communication Technologies" Volume 3, Book 4, Part 3, Chapter 1, e - ISBN: 978-93-6252-892-6, DOI:10.58532/V3BFNC4P3CH1

- **Suparna Biswas, Suparna Karmakar, "Deep neural net based approach for air pressure prediction."** AIP Publications. ISSN: 978-0-7354-4635-9, Scopus Index. September 2023. https://doi.org/10.1063/5.0166718

- **Suparna Biswas, Sayan Roy Chaudhuri, A real time health monitoring system for maintaining covid precautions: A step forward to innovation**. AIP Conf. Proc. 1 September 2023; 2876 (1): 030003. https://doi.org/10.1063/5.0167041

Book

- **Anurima Majumdar, Antara Ghosal, Avali Banerjee, Design and Analysis of Microstrip Patch Antenna for Beginners, Orange Books Publication, ISBN: 978-93-5621-499-6**

- **Kaushik Roy and Suparna Biswas, "Computer Network Question Bank", ISBN: 978-93-87350-90-8, Orange Publishers, June 2024.**
- **Nabaneeta Banerjee, VOC Detection using ZnO nanorod Arrays in Resistive-Capacitive Sensor", ISBN: 978-620-7-80691-1, LAP LAMBERT, June 2024.**
- **Koushik Pal, A Textbook on Sequential Logic Circuits Efficient and Simplified Approach to Sequential Logic DesignISBN: 978-93-87350-82-3, Orange Publishers, June 2024.**

DEPARTMENT: FT

International Journal

- **Shairee Ganguly, Kakali Bandyopadhyay, "Study on characterization of multisource edible oils containing chiaseed oil and self stable vegetable oils,"** in Journal of Food Measurement and Characterization, volume 17, issue 5, page-5209-5218, impact factor-3.4, 3rd July 2023, https://doi.org/10.1007/s11694-023-02031-2
- **Kakali Bandyopadhyay, Elina Sur, Indranil Das, Junaid Ahmed Ansari, Neha Basfore and Poulami Deb, A Review on Pea Peel used as a Biodegradable Food Waste,"** International Journal for Modern Trends in Science and Technology, volume 9, issue 5, ISSN: 2455-3778, page-579-584, Impact Factor:4.175, 2023, https://doi.org/10.46501/IJMTST0905099, UGC Approved Journal (UGC Journal Id : 43137)
- **Souptik Bhattacharya, Shaoli Das, Sanjukta Banik**, "Fabrication and physicochemical investigation of pH-responsive alginate/pectin hybrid network hydrogel for improved stability and controlled release of diallyl thiosulfinate" Materials Today Communications, Elsevier, vol.38, page- 108235, IF-3.8, March 2024. https://doi.org/10.1016/j.mtcomm.2024.108235
- **Santanu Dutta, Kakali Bandyopadhyay , "Preparation And Characterization of Biocolour Fortified Dairy Product",** International Journal of Research and Analytical Reviews (IJRAR), 11(2) 766-774, 2024, Impact Factor-7.17, E-ISSN 2348-1269, P- ISSN 2349-5138, UGC Approved Journal No: 43602(19), https://www.ijrar.org/papers/IJRAR24B1881.pdf., Apr 2, 2024
- **Dr. Kakali Bandyopadhyay, Sagnik Saha, Sutapa Das, Biswajit Mallick, Jiku Chowdhury, "Fortified Dairy Products with enhanced nutritional characteristics**", International Journal of Scientific Development and Research (IJSDR), 9(4) 1313-1321, April 2024, impact factor-8.15, ISSN: 2455-2631, https://www.ijsdr.org/papers/IJSDR2404192.pdf

- **Mondal Soumya, Paul Arkoprovo, Ghosh, Arka, Ganguly Shairee, Sikdar Dolanchapa. (April 2024).”Exploring Nutritious Health Drink A Comprehensive Review.”** published in Journal of Emerging Technologies and Innovative Research(JETIR) 11. 317-325 .https://www.jetir.org/papers/JETIR2404D39.pdf

- **Souptik Bhattacharya, Sayamdipta Das Chowdhury, Sayani Debnath, Soumik Saha, Saikat Mazumder, and Amit Barman. "Formulation of pH-responsive double-network hydrocolloid-based hydrogel matrix for encapsulation of bioactive polyphenols obtained from fruit juice industry byproducts."** Process Biochemistry, Elsevier, 145, (June 2024): 74-88. https://doi.org/10.1016/j.procbio.2024.06.023.(Accepted)

International Conferences

- **Riya Dasgupta, Kakali Bandypadhyay and Aihik Dasgupta “Extraction and Characterization of Lipids Extracted from Different Species of Mushroom: Reforming Nutrition for Optimal Health''** Proceedings of International Conference On “Sustainable Innovation in Food Safety, Health & Nutrition” SInFoCoN-23. Kolkata, December 22-23, 2023

- **Saikat Mazumder, Suditi Jana, Arunava Singha, Chitrini Das, Navin Kumar “Tech-Driven Entrepreneurship: Catalyst for Societal Transformation and Sustainability”** International conference on “Contemporary Issues and Challenges in Management and Technology”, 22th-23th November 2023, Kolkata.

- **Shairee Ganguly, Kakali Bandhyopadhyay, Srishti Mandal. Joyita Khan, Purnasha Paul, “Un-manned agricultural parameter inspection mechanism and plant growth-dependent varied irrigation system for advanced crop cultivation,”** AIP Conference Proceedings, September 2023, Scoupus Indexed, https://doi.org/10.1063/5.0166534

- **Jayshree Majumdar & Dr. Kakali Bandyopadhyay, “Effect of extrusion process parameters on the functiona, cooking, morphologicai, rheological and sensory characteristics of millet based extruded lentil: Essential Amino Acid Balanced Nutri Lentil”**, March 17-18, 2024; International Congress and Expo on Food Science and Technology(ICEFST2024); Polytechnic Institute of Braganca, Portugal.

National Conferences

- **Shaoli Das, Sanjukta Banik, Souptik Bhattacharya**, **"Integration of Polyphenolic Riches From Orange and Mosambi Peel into A Refined Jelly Confection",** National Symposium on Sustainable Technology and Management for Humanistic Growth at Jadavpur University, 22 - 23 December 2023.

- **Poulami Deb, Elina Sur, Indranil Das, Dr. Kakali Bandyopadhyay**, "Preparation of millet based fortified soup powder". 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Dr. Kakali Bandyopadhyay,Ahana Ghosh & Surojit Mukherjee "Garlic as a Promising Source of Bioactive Compounds: A Review"** , 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Arkaprava Bhowmik, Pulastaya Dey, Shamim Hussain, Jayshree Majumdar, "Development of instant millet based khichdi"** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Ankush Chatterjee, Suronjona Banerjee, Debojyoti Mukherjee, Srabasti Deb, Dolanchapa Sikdar "Millet Based Nutritious Bar: A Step Towards Sustainable Development."** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Ankita Mondal, Rajdeep Ghosh, Dolanchapa Sikdar, "Exploring Hygrophila auriculata: Medicinal Plant Review."** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Tiyasa Gupta, Sagnik Chakraborty, Aditi Kar, Souptik Bhattacharya," Edible Hydrogel: A Modern Drug Carrier System in Bioactive Phytochemical Delivery."**, 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Shaoli Das, Sanjukta Banik, Sanjana Baidya, Anushree Pahari, Sreelekha Banik, Souptik Bhattacharya, "Encapsulation of Bioactive Compounds of Citrus sinensis, Citrus limetta and Emblica officinalis in Edible hydrogel: A Health Promotion Approach Through Waste Valorization",** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Reshmi Rajeevan, Riona Saha, Riddhick Mukhopadhyay, Taniska Barai, Shairee Ganguly, "Fortification of whipped cream powder by incorporating orange peel powder"**, 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Soumya Mondal, Arkoprovo Paul, Arka Ghosh, Shairee Ganguly, "An overview of natural food colors: Origin, chemical properties, and applications"** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

DEPARTMENT: IT

International Journal

- **Trishita Ghosh, Sudeep Ghosh, Chowdhury Md. Mizan "Survey on Congestion Control Mechanisms for Improving Communication Effectiveness and Service Quality in VANET".** Journal of Technische Sicherheit (Technical Security). October 2023. Scopus and UGC Care indexed,. IF:6.1.

- **Suparna Karmakar, S**ougata Roy, AnuratiKar, Moumita Basak, **Trishita Ghosh**, Suparna Biswas, **"Deep neural net based approach for air pressure prediction."** AIP Publications. Scopus Index. September 2023**.**

- **Sudeep Ghosh**, **"Provably Secure Public-Key Encryption with Keyword Search Scheme for Data Outsourcing in Cloud Environment"** Journal of System Architecture SCI Indexed, IF-5.83 2023 Volume 139,102876, ISSN 1383-7621, July 2023

- **Tridib Chakroborty, Sudeep Ghosh, Md. Mizan Chowdhury, Trishita Ghosh ,Suparna Karmakar, Gopal Pramanik,** Saransh Sinha **"Automatic Number Plate Recognitionby Employing Deep Learning Methods"** GradivaReview-Journal, Volume 9 Issue 5, July 2023. Scopus Index.

- **Tridib Chakroborty, Sudeep Ghosh, GopalPramanik, Cheryl Mukherjee, "Stock Market Trend Prediction Using LSTM Model For Future Prediction"** Gradiva Review-Journal, Volume 9 Issue 5, July 2023. Scopus Index.

- **Sudeep Ghosh, S. H. Islam, A. V. Vasilakos, "Private Blockchain-assisted Certificateless Public Key Encryption with Multi-keyword Search for Fog-based IIoT Environments",** IEEE Internet of Things Journal [SCIE], H-Index: 149, Q1 Journal IF:8.2.

- **Priyanjana Mitra, Chowdhury Md. Mizan, Teerath Kundu, Biswajit Mondal, Shubhashree Dhar "A study on Footstep Power Generation using Piezoelectric Tile"** Journal of Gradiva Review Journal volume 10 issue 5, May 2024., ISSN NO : 0363-8057 .(Scopus Index).

- **Trishita Ghosh, Suparna Karmakar, Bishu Jaiswal, Jitendra Yadav, Rohit Shaw "PlateSnap: Python and Open-CV Advancing License Plate Recognition".** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- **Tridib Chakraborty, Mayukh Nandan, Suvadeep Giri, Tanmoy Ghosh , Sagar Kumar Ghosh "FINGERPRINT AND FACE RECOGNITION USING IMAGE PROCESSING"** Mukt Shabd Journal Volume XIII, Issue IV, APRIL/2024, ISSN NO : 2347-3150. (UGC Care-I).

- **Chowdhury Md. Mizan, Sanjib Ghosh, Sayan Das, Mousumi Ghosh "Facial Recognition: Detection of Face with accessories"** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- **B. Das, A. Dutta, Trishita Ghosh, Suparna Karmakar "Generative Artificial Intelligence in Healthcare: Advantages, Challenges and Ethical Considerations "** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- **Debasmita Saha, Saptadipa Mazumder, Shashinath Jha, Harshit Choudhary, Himanashu Gupta "Deciphering Deception: Advancing DeepFake Detection through Advanced Machine Learning and Fusion Strategies"** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- **Suparna Karmakar, Trishita Ghosh, Souvik Sarkar, Suchandra Bhattacharya, Bijaya Singha "An Efficient LSTM Based Model for Rainfall Prediction"** Journal For Basic Sciences. June 2024. IF:65.7,ISSN: 1006-8341 Volume 24, Issue 6, 2024 Page no 393-406 Scopus Indexed.

- **Trishita Ghosh, Suparna Karmakar, "Congestion Control Method Using Vehicular Congestion Index by Reducing Messaging Broadcast Rate "** Journal of Systems Engineering

and Electronics . ISSN NO: 1671-1793 Volume 34 ISSUE 6 2024, June 2024. IF:6.1,Scopus Indexed.

- **Suparna Karmakar, "Fuzzy Logic based Obstacle Avoiding Autonomous Robot "** Technische Sicherheit . ISSN NO: 1434-9728 Volume 24, Issue 3,June 2024. IF:6.1 Scopus Indexed. DOI:22.8342.TSJ.2023.V23.10.0.1144

- **Sudeep Ghosh, Tridib Chakraborty, Trishita Ghosh, Shreyasi Ghosh, Niladri Mondal "Blood Pressure Monitoring System Using Different Machine Learning Algorithms"** Journal of Technology Volume 12 Issue 6, June 2024, ISSN: 10123407. IF-5.1 (Scopus Indexed)

- **Tridib Chakraborty, Sudeep Ghosh, Raunak Seal "Intelligent Tutoring System to Reduce the Dropout Rate in E-Learning System"** Journal of Technology Volume 12 Issue 6, June 2024, ISSN: 10123407,IF-5.1(Scopus Indexed).

- **Suparna Karmakar "Survey on Biometric Authentication Schemes Based on Color, Images And OTP"** SERB , ISSN:-978-93-340-309, April 2024

Book Chapter

- **Mandira Banik, Sudeep Ghosh, Amrut Ranjan Jena, and Hrittika Maity. "Recognizing chemical structures drawn by hand using deep learning algorithms and predict probable chemical structure."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Suparna Karmakar, Sougata Roy, Anurati Kar, Moumita Basak, Trishita Ghosh, Suparna Biswas, "Deep neural net based approach for air pressure prediction."** AIP Publications. ISSN: 978-0-7354-4635-9, Scopus Index. September 2023.

DEPARTMENT: EE

International Journal

- **Barnali Kundu, Subhamoy Dey, Souvik Pal, Aniruddha Sengupta, Manoshi Biswas, "Automated Transmission Line Fault Detection using Distance Locator",** American Journal of Advanced Computing, American Journal of Advanced Computing, Volume 2, Issue 1, pp. 1-5. (ISSN NO:2368-1209). DOI: https://doi.org/10.15864/ajac.21014, April 2023
- **Barnali Kundu, Dwaipayan Mazumdar, Debmalya Das, Sujoy Ghati, Arnab Dutta, "Design of Two stage Isolated Bidirectional Converter for Plug-in Electric Vehicles**", YMER, July, 2023 (ISSN NO: 0044-0477).

- **Sumangal Bhaumik, Aveek Chattopadhyaya, Titas Bhaumik, Suman Ghosh, Shyamal Roy, Amit Debnath, Pinaki Biswas, "Transient Behavior Analysis of Induction Motor in Grid Connected PV Microgrid Using ETAP and MATLAB",** Journal For Basic Sciences, Volume 23, Issue 12, pp. 251-259, December 2023, Impact Factor: 6.1, ISSN NO : 1006-8341. (Scopus Indexed). DOI:10.37896/JBSV23.12/2763.

- **Suparna Biswas, Sayan Roy Chaudhuri, Aveek Chattopadhyaya, Sumedha Bhattacharya, Gautam Kr Das, Sumangal Bhaumik, Titas Bhaumik, "Machine Learning Based ECG Signal Classification"**, Journal For Basic Sciences, Volume 24, Issue 1, pp. 367-2377, January 2024, ISSN NO : 1006-8341.

- **Shyamal Kumar Roy, Aveek Chattopadhyaya, Suman Ghosh, Amit Debnath, "Design of Three Phase Inverter Fed AC Drive",** Technische Sicherheit(Technical Security), Volume 24, Issue 03, pp. 201-211, March 2024, ISSN N0.: 1434-9728.

- **Barnali Kundu, Debasree Saha, Suman Ghoah, Arpan Das "Development of a Photovoltaic-Powered Electrolyzer for Sustainable Green Hydrogen Production",** Technical Security Journal, Vol.24, issue.4, April, 2024 (ISSN:2191-0073).

- **Mainak Das, Suman Ghosh, Barnali Kundu, Vishal Roy, Arpan Kumar, Akash Das, "Cost Effective Solar Powered Wireless Mobile Charger",** Journal of Basic Science, Vol.24 , issue.5, June, 2024 (ISSN NO: 1006-8341).

- **Tista Banerjee, Sumangal Bhaumik, Aveek Chattopadhyaya, Titas Bhaumik, Shubham Kar, Surajit Paul, "Parameter Estimation of Three Phase Induction Motor using Gravitational Search Algorithm for DTC",** Journal For Basic Sciences, Volume 24, Issue 06, pp. 566-576, June 2024, ISSN NO : 1006-8341.

- **Soumya Kanti Bandyopadhyay, Sumangal Bhaumik, Aveek Chattopadhyaya, Titas Bhaumik, Shyamal Kumar Roy, Amit Debnath, Suman Ghosh, Tista Banerjee, "Negative Sequence Component and Root Mean Square Based Single Phasing Detection of Induction Motor"** Journal For Basic Sciences, Volume 24, Issue 06, pp. 594-603, June 2024, ISSN NO : 1006-8341.

- **Debasree Saha**, **Barnali Kundu, Amit Debnath, Arpan Das, "A REVIEW OF FAULT DIAGNOSIS IN AC MICRO-GRIDS BY MACHINE LEARNING**", YMER (Publisher: University of Stockholm) Volume 23, Issue 6, June- 2024, p.p. 1215-1230, (SCOPUS indexed), **UGC Care -II, ISSN : 0044-0477.**

- **Nidhi R, Biman Kumar Saha Roy, Debasree Saha, Manas Mukherjee, "Performance Comparison of PSO, HGSO, and DE Optimization Techniques for Computation of Directional Overcurrent Relay Coordination in Power Systems",** Engineering Review, (SCOPUS and Web of Science (Emerging Sources Citation Index), (Accepted on June 2024)

National Conference

- **Susovan Dutta, Bishaljit Paul, Barnali Kundu, Raju Basak, "Managing Flexibility with Uncertainty in Integrating Renewable Energy Sources into classical Grid"**, Third Regional Conclave of Students' Chapters (Eastern Region), Institution of Engineers (I), JIS College of Engineering (JISCE), West Bengal on 5th April, 2004.

- **Arpan Das, Barnali Kundu, Ankur vaibhav, Nivedita Saha, "Design and Development of an IOT Governed Smart Battery Management System",** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Arpan Das, Barnali Kundu, Eshita Das, Payel Chakraborty, Aritra Chowdhury, Susovan Dutta, "A Data-Driven Approach for Accurate Solar Power Forecasting",** SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, April, 2024.

- **Ramanuj Bhowmick, Soumyajit Pradhan, Ratnadwip Dhali, Barnali Kundu, Susovan Dutta, Rikta Majumder, "Smart Energy Meter Utilizing Internet of Things (IOT) Technology",** SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, April, 2024

- **Debarghya Roy, Akash Bhowmick, Arghyadeep Ghosh, Kumari Guria Rani, Aveek Chattopadhyaya, Susovan Dutta, "Third Eye for Blind Person",** IEI Conclave Of Student's Chapter 2024, JIS College of Engineering, 2024, 05.04.2024 (Selected as Session Best Paper).

- **Shyamal Kumar Roy, Suman Ghosh, Aveek Chattopadhyaya, Amit Debnath, Chandrima Ghosh, Soumyajit Dasgupta, Souptik Chakraborty, "Smart Weight Monitoring System",** SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, pp. 114 -121, 19.04.2024.

- **Aveek Chattopadhyaya, Suparna Biswas, Antara Ghosal, Sayan Roy Chaudhuri, Vinayak Raj Gupta, Srikant Khator, "Wavelet Transform Based Statistical Analysis of ECG Signal for Diagnosis of Sleep Apnea"**, SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, pp. 191 -196, 19.04.2024.

- **Sahil Mondal, Tushar Ghosh, Prasun Das, Amit Debnath and Susovan Dutta, "Three Phase Transmission Line Fault DetectionSystem"**, Third regional conclave of Students' Chapter (Eastern region) IEI, at JISCE, 5th April 2024.

Book Chapter

- **Aveek Chattopadhyaya, Niladri Mukherjee, Surajit Chattopadhyay, "Assessment of Faults in Hybrid System Connected with Main Grid",** Linear and Nonlinear System Modeling, Scrivener Publishing LLC,WILEY, PP. 1-14, June, 2024, ISBN 978-111984-742-7.

- **Aveek Chattopadhyaya, Surajit Chattopadhyay, "Modeling and Simulation of Current Transformer to Study Its Behaviours in Different Conditions",** Linear and Nonlinear System Modeling, Scrivener Publishing LLC,WILEY, PP. 127-142, June, 2024.

- **Sagnik Datta, Aveek Chattopadhyaya, Surajit Chattopadhyay, Arabinda Das, "Comparative Study of Different Existing Standard Microgrid Networks",** Linear and Nonlinear System Modeling, Scrivener Publishing LLC,WILEY, PP. 33-48, June, 2024 .

DEPARTMENT: ASHU

International Journal

- **Dr. Indrajit Bose, "Through Magic Casements:"** Childhood Vision in Frances Hodgson Burnett, Langlit, (December 2023)Vol 2, Issue 3, pp. 56-61. (International Peer-Reviewed Journal), ISSN: 2349-5189.

- Subho Ghosh**, Namrata Chakrabortty, "A Saga of Stream of Consciousness: Mulk Raj Anand's Untouchable"** published in Journal of Emerging Technologies and Innovative Research October 2023 ISSN: 2349-5162

- Subho Ghosh**, Namrata Chakrabortty, "Modern Indian Literature in Translation: Bama's Karukku and Sangati",** International Journal of English Literature and Social Sciences, Vol-8, Issue-6; Nov-Dec, 2023, Journal DOI: 10.22161/ijels

- **Susinjan Bhattacharya and Soma Mukherjee, "Glance at Vedic education and An Expected Modern Education System"** in Journal of Emerging Technologies and Innovative Research (JETIR), December 2023, Volume 10, Issue 12, ISSN-2349-5162, https://doi.one/10.1729/Journal.37077 (UGC CARE and Scopus Indexed)

- **Soma Mukherjee Biswajit Mandal, Debanjan Datta and Susinjan Bhattacharya, "Control and Management of Road Accidents by a New Smart Device"** in International Advanced Research Journal in Science, Engineering and Technology Vol. 10, Special Issue 3, September 2023, ISSN (Print) 2394-1588

- **Sumit Biswas, Partha Pratim Mandal, Susinjan Bhattacharya and Soma Mukherjee, "Overcoming Antibiotic Resistance"** in Int.J.Curr.Microbiol., App.Sci (October 2023) 12(10): 153-165, ISSN: 2319-7706 (UGC CARE)

- **Soma Mukherjee, Susinjan Bhattacharya, Diprit Turul, Pramila Das, and Aritra Chakraborty "Management Of E-waste - A Potential Threat To The Environment"** in Journal of Emerging Technologies and Innovative Research (JETIR), December 2023, Volume 10, Issue 12, ISSN-2349-5162, http://doi.one/10.1729/Journal.37365 (UGC CARE and Scopus Indexed)

- **Sanjoy Biswas, Samir Dey, "Neutrosophic Hesitant Fuzzy Techniques and its Application to Structural Design**", Neutrosophic set and system, Vol. 57, 2023, pp. 76-113, DOI: 10.5281/ZENODO.8271331, (Scopus indexed) (August, 2023)

- **Sanjoy Biswas, Samir Dey, "A New Approach to Solve Multi Objective Linear Programming Problem Under Neutrosophic Environment",** International Journal of Applied and Computational Mathematics, 2023, 9(6), pp. 1-29, DOI: 10.1007/s40819-023-01610-7, (Scopus indexed) (October, 2023)

- **Sanjoy Biswas, Samir Dey, "Hesitant Fuzzy Approach for Multi-objective nonlinear Structural Design Problem under Uncertainty",** Moenia Journal,10(7), 19-31, 2023 (Scopus Indexed), ISSN NO: 1137-2346, DOI:10.37896/MOENIA10.7/304

- **Sucharita Bhattacharyya and Anup Kumar Thander, Application of Finite Difference Method (FDM) to study Slab Waveguide Communication with Fourth-Order Compact Scheme,** Moenia Journal ,10(7), 171-181, 2023 (Scopus Indexed), ISSN NO: 1137-2346, DOI:10.37896/MOENIA10.7/316

- **Sucharita Bhattacharyya and Arghya Mondal, Solar Energy & Smart City : The Status in India,** American Journal of Advanced Computing, 2(1) 2023 ISSN No. 2691-5944, https://doi.org/10.15864/ajac.21020 (Scilit indexed)

- **Mainak Debnath, Indrajit Bhattacharyya, Sreyasree Basu, "Synthesis and Characterization of a Mononuclear Vanadium (V) complex with Phenol based Ligands"** published in International Journal of Enhanced Research in Science, Technology & Engineering, ISSN: 2319-7463, (Thomson Reuters indexed) Vol. 13 Issue 4, April-2024.

- **Mainak Debnath, Indrajit Bhattacharyya, Sreyasree Basu, "Catalytic activities of a Mononuclear Vanadium(V) Complex with Phenol based Ligands"** published in International Journal of Enhanced Research in Science, Technology & Engineering, ISSN: 2319-7463, (Thomson Reuters indexed) Vol. 13 Issue 5, May-2024.

- **A K Thander, G Mandal, Optical waveguide analysis using alternative direction implicit (ADI) method in combination with successive over-relaxation (SOR) algorithm**. J Opt 53, 475–481 (2024). https://doi.org/10.1007/s12596-023-01206-w (Scopus Indexed)May 2023

- **A K Thander, G.mandal, S Dey, Numerical comparison of two different single step iterative methods in complex plane for finding basins of attraction**, American Institute of Physics Conference Series, September 2023 (Scopus Indexed) DOI: 10.1063/5.0166679

- **A K Thander, D Bhowmik, Artificial neural network with the Levenberg-Marquardt algorithm for numerical solution of two-dimension Poisson's equation**, BOHR International

Journal of Smart Computing and Information Technology, vol 4(1), December 2023, https://doi.org/10.54646/bijscit.2023.37

- **A K Thander, S Bhattacharyya, Slab waveguide communication study using Finite Difference Method (FDM) with fourth-order compact scheme**, vol 16, Results in Optics, January 2024 (Scopus Indexed)

- **A K Thander, G Mandal and D Bhowmik, Optimization Toolbox Solvers in MATLAB for nonlinear constraints and objective functions**, Moenia Journal ,10(7), 164-170, 2023 (Publisher: Universidade de Santiago de Compostela) (Scopus Indexed).

International Conferences

- **Dr. Soma Mukherjee** and Susinjan Bhattacharya, **"MULTIDISCIPLINARY RESEARCH & ITS CONSEQUENCES IN MODERN ERA" in International Conference on "MULTIDISCIPLINARY RESEARCH METHODOLOGY & IPR 2023**" (ICMRM - 2023) ORGANIZED BY: Research & Development Cell and IQAC,, Bhairab Ganguly College, India, Swami Vivekananda University, India in Association with Azteca University, Mexico.

- **Dr. Soma Mukherjee** "Potential future of silicon recycling from end-of-life Solar cells" in International Conference in Science, Technology and Communication Skills TCSCON 2024 during 22-24 Feb 2024 organized by Department of Basic Science and Humanities , NIT, Agarpara.

- **Dr. Soma Mukherjee** "Harnessing Artificial Intelligence for Air Pollution Control: A Path to Cleaner and Healthier Cities", Technology and Communication Skills TCSCON 2024 during 22-24 Feb 2024 organized by Department of Basic Science and Humanities , NIT, Agarpara.

- **Dr. Sucharita Bhattacharyya, Mr Dipanjan Bhattacharjee** "Green Energy Technology: Hydrogen Energy as a Versatile Solution towards Greener Future", in International Conference in Science , Technology and Communication Skills TCSCON 2024 during 22-24 Feb 2024 organized by Department of Basic Science and Humanities , NIT, Agarpara

- **Dr. Sucharita Bhattacharyya, Mr Dipanjan Bhattacharjee** "Transforming Education Beyond Tradition: Adapting New Age Teaching Techniques to Shape the Future of the Learning", in International Conference in Science , Technology and Communication Skills TCSCON 2024 during 22-24 Feb 2024 organized by Department of Basic Science and Humanities , NIT, Agarpar

- **Mr. Dipanjan Bhattacharjee, Mrs. Soumi Patra**"A review on Solid Waste to Electrical Energy production for Sustainable future of India" in International Conference in Science ,Technology and Communication Skills TCSCON 2024 during 22-24 Feb 2024 organized by Department of Basic Science and Humanities , NIT, Agarpara

- **Dr. Sucharita Bhattacharyya, "Finite Difference Method with Fourth-Order Compact Simulation Scheme to Analyse Performances of Optical Waveguides of Different Structures,"** accepted in International Conference on Recent Innovation in Science, Computing and Communication (RISCC 2024) , to be organised by JISU.

National Journal

- **Sucharita Bhattacharyya, 'New Age Teaching to Shape the Future of the Learning & AR-VR Simulation: A Statistical Analysis', Accepted** (June 2024) for publication in Journal of Calcutta Mathematical Society (UGC CARE).

National Conference

- **Soma Mukherjee**, Susinjan Bhattacharya, **"Piezoelectric materials as a source of green energy"** in 14th Inter University Engineering, Science & Technology Academic meet 2024 & Innovative model competition for a sustainable society organized by FOSET 2024, at JISCE on 12.05.2024

- **Sucharita Bhattacharyya, Aratrika Ghosh, Tanmoy Sarkar, Suchana Chanda " Renewable Energy from Non-Conventional Sources: The Possibilities & Esmitations"** in FOSET ACADEMIC MEET 2024, organized in JISCE on 12th May, 2024

Book Chapter

- **Dr Indrajit Bose, "Exploring Women's Issues in the Short Stories of John Steinbeck and Katherine Anne Porter,"** *Reflections in Ink: An Anthology of English Literature*. New Delhi: Malik and Sons, 2023. ISBN: 978-93-92459-16-0.,pp. 17-25.

- **Sanjoy Biswas, Samir Dey, "A New Approach to Solve Multi-objective Structural Model Under Neutrosophic Environment",** Lecture Notes in Networks and Systems., 2023, 727 LNNS, pp. 565–575, DOI: 10.1007/978-981-99-3878-0_48, Lecture Notes in Networks and Systems (Scopus indexed) ,July, 2023

- **Pratim Chatterjee, Debasish Batabyal,** Namrata Chakrabortty**, Yashwant Singh Rawal, Sankar Kumar Mukherjee, Soumyadeep Roy, "Animal Cruelty and Sacrifice in Religious and Mythological Tourism: Perspective and Challenges in South Asia"** published in Exploring Culture and Heritage Through Experience Tourism, October 2023 DOI:10.4018/978-1-6684-9957-3.

- **Debasish Batabyal, Pratim Chatterjee, Somnath Chatterjee,** Namrata Chakrabortty, **"A Perspective on Animal Cruelty: Conservation in Religious and Mythological Tourism in South Asia"** published in Prospects and Challenges of Global Pilgrimage Tourism and Hospitality, August 2023 DOI: 10.4018/978-1-6684-4817-5.

- **Pratim Chatterjee , José Vargas-Hernández, and Namrata Chakrabortty, "Role of Digitization in the Luxury Hospitality Industry: A Bibliometric and Content Analysis"** published in *Technology and Luxury Hospitality AI, Blockchain and the Metaverse, I*SBN 9781032785066, published June, 2024 by Routledge (Scopus Indexed)

- **Dr Indrajit Bose. "Secret Sharing and Unshareable Secrets: Subversive Women in Conrad's Early Fiction",***Voices Unveiled: Women in Literary Landscape.* New Delhi: Authors's Press, 2024. ISBN: 978-93-6095-340-9[April 2024]

- **Soma Mukherjee, Susinjan Bhattacharya, Indrani Sarkar, Diprit Turul, and Riddhi Lahiri, "Potential future of silicon recycling from end-of-life Solar cells"** published in Recent Societal Development and Sustainability, ISBN: 978-81-971906-7-4, Ideal International E-publication, Indore, India , published June 2024

- **Indrani Sarkar, Soma Mukherjee, Gargi Bose, Akash Mondal, "Use of AI in Air Pollution Research: An analysis"** published in *Recent Societal Development and Sustainability,* ISBN: 978-81-971906-7-4, Ideal International E-publication, Indore, India , published June 2024

- **Soumi Patra, Dipanjan Bhattacharjee, Srijita Roy Chowdhury, and Shreenath Das, "A review on Solid Waste to Electrical Energy production for Sustainable future of India"** published in *Recent Societal Development and Sustainability,* ISBN: 978-81-971906-7-4, Ideal International E-publication, Indore, India , published June 2024

- **Dr. Sucharita Bhattacharyya, "Finite Difference Method with Fourth-Order Compact Simulation Scheme to Analyse Performances of Optical Waveguides of Different Structures,"** Accepted for publication in 1st International Conference on Recent Innovation in Science, Computing and Communication (RISCC 2024)

DEPARTMENT: CA

International Journal

- **Ananjan Maiti,** Ariijit Roy, **Chiranjib Dutta, Dola Saha**, **"Artificial Intelligence in Smoking Residue Detection: Bridging the Gap Between Medical Diagnostics and Predictive Analysis,"** published in American Journal of Advanced Computing, Volume 2, Number 1, pp. 6-18, August 2023. DOI: https://doi.org/10.15864/ajac.21013.

- **Ananjan Maiti,** Arghay Podder, **Chiranjib Dutta, Dola Saha**, **"Improved RNN-based System for Deciphering Doctors' Handwritten Prescriptions,"** published in American Journal of Advanced Computing , Volume 2, Number 2 , December 2023 . DOI: https://doi.org/10.15864/ajac.22012.

- Ahamed, Sk Asfaq, **Indranil Sarkar**, MD Altabuddin Molla, Sandip Roy, Rajesh Bose, **"Utilizing the RGB Color Model and Halftone Technique for Color Segregation in Visual Cryptography.",** published in International Journal of Science and Research (IJSR) ,Volume 12, Issue 10, ISSN: 2319-7064 , page-1804-1808, Impact factor-7.942, October 2023 , DOI: 10.21275/SR231023210943.

- **Indranil Sarkar, "Research on Quick Bills: Web-based Billing Software",** Indian Journal of Natural Sciences, Vol.14, Issue 82, ISSN.: 0976 – 0997, Web of Science, February, 2024.

- **Indranil Sarkar, "Utilizing the RGB Color Model and Halftone Technique for Color Segregation in Visual Cryptography",** International Journal of Science and Research (IJSR) 12 (10), 1804-1808, ISSN.: 2319 – 7064, Web of Science, October, 2023.

- **Dola Saha**, Pradipta Paul "**Heart Sound Classification: A Deep Learning Framework Integrating STFT, Log Mel Spectrogram, and DBN** " published in Journal of Xidian University(International Journal), volume-18, Issue-6, ISSN-1001-2400, ,Impact factor-5.4, **June 2024** [**SCOPUS Indexed/** *UGC – CARE Approved (Group – II)*]

- **Dola Saha**, Pradipta Paul "**Heart Sound Classification: A Deep Learning Framework Integrating STFT, Log Mel Spectrogram, and DBN** " published in Journal of Xidian University(International Journal), volume-18, Issue-6, ISSN-1001-2400, ,Impact factor-5.4, **June 2024** https://doi.org/10.5281/Zenodo.12309834 [SCOPUS Indexed/ UGC – CARE Approved (Group – *II)*]

- **Dola Saha**, Amisha Shaw, Mosammat Sanjida, Parna Mitra, Pradipta Paul "**Acoustic Feature Analysis for Heart Disease Prediction: A Hybrid Approach with MFCC, DBN and CNN**" published in Journal of Technology(International Journal), volume-12, Issue-6, ISSN-1012-3407, ,Impact factor-5.1, **June 2024** https://18.15001/JOT.2024/V12I6.24.522 [SCOPUS Indexed/ UGC – CARE Approved (Group – II)]

International Conferences

- Ahona Ghosh, Lidia Ghosh, Sharmistha Dey, **Indranil Sarkar**, Sriparna Saha, "Hybrid Electroencephalography-Induced Robot Navigation for Rehabilitative Platform", **20th IEEE India Council International Conference – 2023 (INDICON -2023),** IEEE Hyderabad Section at the National Institute of Technology, Warangal, 14-17th December 2023.

- Biswarup Ganguly, Ahona Ghosh, Sharmistha Dey, **Indranil Sarkar**, Sriparna Saha, "An Explainable Deep Learning Approach for EEG-Induced Motor Imagery Classification", **20th IEEE India Council International Conference – 2023 (INDICON -2023),** IEEE Hyderabad Section at the National Institute of Technology, Warangal, 14-17th December 2023.

- **Ananjan Maiti, Indranil Sarkar, "Navigating the digital wave chatGpts Revolutionary, role of transforming Medical Literature and education**" in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.
- **Indranil Sarkar, "Combating Hate Speech on Social Media: Automated Detection using XGBoost Algorithm"** in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.

Book Chapter

- **Indranil Sarkar, "Elderly Fall Detection using Deep Learning Enabled Internet of Healthcare Things",** Smart Healthcare Systems: AI and IoT Perspectives, CRC Press, 2024(Accepted).

- **Indranil Sarkar, "A Machine Learning Approach Towards Yoga Exercise Classification for Pain Recovery",** Advances in Computational Intelligence for the Healthcare Industry 4.0, IGI Global, 2024, ISBN.:9798369345481, April, 2024.

National Conferences

- **Chiranjib Dutta, Ananjan Maiti, Indranil Sarkar, "AI Integration for Parkinson's disease Management: A New Era of Therapy and Diagnosis"** In SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), organized by Department of Electronics & Communication Engineering, Guru Nanak Institute of Technology, ISBN.:978-93-340-3095-2, 18-19, April 2024.

- **Ananjan Maiti, Chiranjib Dutta, "Enhancing Mental Health Diagnostics: The Role of Machine Learning Algorithms"** In SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), organized by Department of Electronics & Communication Engineering, Guru Nanak Institute of Technology, ISBN.:978-93-340-3095-2, 18-19, April 2024.

DEPARTMENT: ECS

International Journal

- **Suparna Maity, Manika Saha, Pankaj Saha, and Munmun Khanra. "Fractional calculus-based modeling and state-of-charge estimation of supercapacitor."** *Journal of Energy Storage* 81 (March 2024): 110317. SCI, Impact factor 9.4. DOI: doi.org/10.1016/j.est.2023.110317

- **Suparna Maity, Bapita Roy, Adhish Kumar Chakrabarty. "Machine Learning Models in Medical Application: A Survey",** Volume 12, Issue 5, 2024. Scoupus Journal, Impact factor 0.08.Page No:714-719, DOI:18.15001/JOT.2024/V12I5.24.384

- **Bapita Roy, Suparna Maity, Adhish Kr Chakrabarty, Saikat Majumder. " IoT Revolution: Enhancing Wellness Through Design And Development Of An Iot Based Smart Health Monitoring Systems",** Journal of Technology, Volume 12, Issue 5, 2024. Scoupus Journal, Impact factor 0.08. Page No:668-675, DOI:18.15001/JOT.2024/V12I5.24.378

International Conferences

- **Suparna Maity** and M. Saha, **"Performance Analysis of Fractional Order Extended Kalman Filter for State of Charge Estimation of Supercapacitor",** International Conference On

Computational Intelligence And Smart Technologies in Electrical Engineering (CISTEE-2023), organized by NIT Durgapur, 16-17 December,2023.

- **Bapita Roy**, Ravi Kumar, Shayak Chakraborty, **"IoT based Structural Health Monitoring using Machine Learning Approach"**, 8th International Conference On Emerging Applications Of Information Technology (EAIT 2024), Organized by the CSI Kolkata Chapter, IETE Kolkata Centre, 13/01/2024

National Conference

- **Suparna Maity, Bapita Roy, Adhish Kumar Chakrabarty,Ravi Kumar, Krishanu Pal."A Comprehensive Review on Application of Machine Learning in Healthcare",** SERB Sponsored Two Days National Conference on Machine Learning In Healthcare Applications MLHA-2024 organised by Electronics and Communication Engineering department of Guru Nanak Institute of Technology , 18-19 April 2024.

- **Bapita Roy, Suparna Maity, Adhish Kumar Chakrabarty, Saikat Majumder, Ravi Kumar, Shayak Chakraborty."Developing an IoT- Powered Health Monitoring System for Enhanced Wellness",** SERB Sponsored Two Days National Conference on Machine Learning In Healthcare Applications MLHA-2024 organised by Electronics and Communication Engineering department of Guru Nanak Institute of Technology , 18-19 April 2024.

Book Chapter

- **Bapita Roy, Saikat Majumder, book chapter titled "Internet of Things and its Impact on Society" of published book (peer reviewed) entitled "Advances in Engineering Technology" (Volume- 7)",** by Akinik Publications, ISBN 978-93-6135-139-6.

- **Bapita Roy, Saikat Majumder, book chapter titled "Quantum Computing: Unlocking the Future" of published book (peer reviewed) entitled** "Advances in Computer Science (Volume - 22)" by Akinik Publications, ISBN 978-93-6135-289-8.

2022-23

DEPARTMENT: CSE

National Conference

- **Moloy Dhar, Sayan Roy Chaudhuri, Ipsita Saha, Abir Ganguly, Abir Bachar,"Identify Human Actions using 3-Dimensional Convolutional Layer-A Deep Learning Method"** published in FOSET(Forum of Scientists, Engineers & Technologists),National Conference held on 10th-11thSeptmeber, 2022.

International Conference

- **Sangeeta Bhattacharya, Sayani Chandra, Suravi Ghosal, "Human Face Recognition System using Microcontroller"** published in the Proceedings of AICTE sponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022) on 8-9th July, 2022, ISBN: 978-93-5593-089-7, pp 197-199.

- **Pallabi Das, Dr. Rajashree Nayak, "Explanable CAD System For Early Detection Of Diabetic Eye Diseases: A Review",** accepted in I International Conference on Robotics, Control, Automation and Artificial Intelligence (RCAAI-2022) during November 24-26, 2022 ("Lecture Notes in Electrical Engineering (LNEE)" series (https://www.springer.com/series/7818)).

- **Sayani Chandra, Sangeeta Bhattacharya, "Depression Inducing Emotion Detector in Online Social Networks"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Sangeeta Bhattacharya, Sayani Chandra, "Customer Behaviour Forecasting using Predictive Analysis of Sales Data"** accepted in International Conference on Innovations in

Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Amrut Ranjan Jena,"An Intelligent Model for Predicting Human Diseases by Using Machine Learning Techniques"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Amrut Ranjan Jena, Ipsita Saha,"A Comparative Analysis of Financial Fraud Detection in Credit Card by Decision Tree and Random Forest Techniques"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Ananjan Maiti,"Detection of Skin Cancer Through Shape Features and Grid Search Machine Learning Approach"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Moloy Dhar, Amrut Ranjan Jena,Paramita Saha ,"Caption an Object using the pre-trained Deep Learning Model for Single Shot Multi-Box Detector"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Amrut Ranjan Jena ,Moloy Dhar, Mandira Banik,"A study on predictive analysis through machine learning for data security"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Ipsita Saha, "A Technique towards Disease Prediction: An Approach of Machine Learning"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Rupak Chakraborty, Sourish Mitra, Rafiqul islam, Bidyutmala Saha, Nirupam Saha, "A New Composite Kernel-based Classification Approach of Hyperspectral Images"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Mandira Banik, Amrut Ranjan Jena, "Recognizing Chemical Structures Drawn by Hand using Deep Learning Algorithms and Predict Probable Chemical Structure"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Pallabi Das,"Preprocessing Retinal Fundus Images to Localize Lesions for Identification of Diabetic Eye Diseases"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Ipsita Saha, "AI based Interpretive Structural Modeling Analysis for Risk Management Integration of ERP Implementation"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

International Journal

- **Saptadeepa Mitra, Shaswata Pyne, Rupnath Shaw, Supriyo Maity, Sourish Mitra, "IoT Based Water Distribution and Fertilizer Sprinkling System in an Agricultural field"** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 10 Issue-VII,July 2022

- **Sourish Mitra, Biswajit Chaki Choudhuri, Srabani Biswas, Ipsita Saha, Moubani Hari,Riyanka Gangopadhyay,Prince Sana, Priyabrata Sen, Srijani Hari, Kuntal Kumar Samanta,"IoT Based Student Gossip Detection and Electricity Misuse Prevention System in A Smart Library"** on Scopus indexed - Gradiva Reviewed (International),Volume 9, Issue 4,ISSN NO : 0363-8057 on May, 2023

- **Zenitha Bera, Diya Roy, Aditi Dana, Bidisha Goswami, Jayita Pramanik, Srabani Biswas, Ipsita Saha, Sourish Mitra " A GUI Based Indian Sign Language Identification System using CNN Model" on Scopus indexed -** Gradiva Reviewed Journal(International),VOLUME 9 ISSUE 4,ISSN NO : 0363-8057 on April, 2023.

- **Sourish Mitra, Dr.Saptarshi Das, Dr.Santanu Kumar Sen,"Implementation of a Secured ABAC-Attribute Based Access Control Algorithm as per the predefined ABAC policy of an Organization for protecting Confidential Resources"**published in scopus indexed Gradiva Reviewed Journal,Volume 9, Issue 4,PAGE NO : 725-730,ISSN NO : 0363-8057 on April, 2023

- **Sunanda Chakraborty, Shibam Chakraborty, Moloy Dhar, Nirupam Saha, Bidyutmala Saha, Pallabi Das, Rafiqul Islam, Sutapa Sarkar, "Captioning Image Using Deep Learning: A Novel Approach",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Md Adnan Wasi, Rakesh Das, Purnendu Sarkar, Suvajit Singha, Tanmay Barman, Sourov Kumar Kundu, Moloy Dhar, Sayan Roy Chaudhuri, "Image Captioning Using Deep Learning",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Sristi Kundu, Pallabi Das, Sharanya Paul, Disha Dan, Bikram Kumar, Arti Kumari, Ausaf Masuf, Moloy Dhar, "LBP Feature Extraction for Early Detection of Diabetic Eye Diseases",**published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Soumyajit Nandi, Soumyanil Dey, Soham Bhattacherjee¸ Shakir Ahmed, Aratrika Ghosh, Moloy Dhar, Nirupam Saha, Biswajit Chaki Choudhury, "Credit Card Fraud Detection Using Random Forest Classification",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Arpan Sen, Aman Kumar Jaiswal, Atul Singh, Bidrohi Pradhan, Subhasis Dey, Aniket Mondal, Moloy Dhar, Pallabi Das, "Captioning Image Using Deep Learning Approach",** published in International Journal for Research in Applied Science & Engineering Technology

(IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-V, May 2023.

- **Wazir Ahmed, Prity Roy, Utsha Talukder, Soumyadip Debroy, Suman Saha, Debasish Bhattacharjee, Nirupam Saha, Moloy Dhar, "Fraud Detection of Credit Card Using Machine Learning",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Srabani Kundu , Nabanita Das:** A study on boundary detection in wireless sensor networks. Innov. Syst. Softw. Eng. 19(2): 217-225 (2023)

- **Srabani Kundu, Nabanita Das, Dibakar Saha, Pradip Biswas:** Unknown terrain imaging with adaptive spatial resolution using UAV. Ad Hoc Networks 135: 102937 (2022)

DEPARTMENT: IT

International Seminar / Conference

- **Suaprna Karmakar, Trishita Ghosh, Sougata Roy, Anurati Kar, Moumita Basak, "Deep Neural Net Based Approach For Air Pressure Prediction"**Second International Conference on Innovations in Software Architecture and Computational Systems (ISACS 2022),21 – 22 July, 2022.Proceeding will be published in AIP publications (Scopus, Web of Science)

- **Sudeep Ghosh, Mandira Banik, Amrut Ranjan Jena "Recognizing Chemical Structures Drawn by Hand usingDeep Learning Algorithms and Predict Probable Chemical Structure"** Second International Conference on Innovations in Software Architecture and Computational Systems (ISACS 2022),21 – 22 July, 2022.Proceeding will be published in AIP publications (Scopus, Web of Science)

- **Tridib Chakraborty, Sudeep Ghosh, Trishita Ghosh, MD Mizan Chowdhury, Dr. Moumita Das, Suparna Das, Sayani Sengupta, Debayan Roy, Gourav Nandy, Roumita Singha, Pallab Nath, Sriparna Ghosh, "Image Colorization using Deep Learning"** AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022.

- **Katha Roy, Ishan Goswami, Jagyaseni Sengupta, Debashruti Das, Moumita Das, Sudeep Ghosh, Tridib Chakraborty , MD Mizan Chowdhury, Suparna Karmakar, Trishita Ghosh "Music Genre Interpretation Study using Machine Learning and Regression Analysis Approach"** AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022.

- **Dr.Moumita Das,Tridip Chakraborty, Sudeep Ghosh, Suparna Karmakar,Trishita Ghosh, Mizan Chowdhury,Raunak Seal, "New frontiers of Cyber Warfare"** AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022.

- **Suparna Karmakar, Trishita Ghosh, Tridib Chakraborty, Anurati Kar, Sougata Roy, Moumita Basak, "OCR based approach for Auto-Detection and Recognition of Vehicle Number Plate"** AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022.

International Journal

- **Trishita Ghosh, "Advances in Online Handwritten Recognition in the last decades",** Journal of Computer Science Review, SCI Indexed, Elsevier, IF-7.82 (accepted).

- **Dr.Moumita Das , Suparna Karmakar, Trishita Ghosh, Chowdhury Md. Mizan, Sanju Ghosh, Soumyajit Baneerjee "Petri Net Based Design of Auto-Signaling Framework in Railway Network",** International Journal of Scientific Research in Engineering and Management (IJSREM) Volume 06, Issue 06 July 2022.

- **Chowdhury Md. Mizan, Sudeep Ghosh, Tridib Chakroborty, Moumita Das, Swarnava Sengupta, Sandip Mondal, Suman Dey, Swarup Mondal, Biswarup Nayak "Multi**

Biometric System by Iris and Fingerprint", International Journal of Scientific Research in Engineering and Management (IJSREM) Volume 06, Issue 06 July 2022.

- **Moumita Das, Chowdhury Md. Mizan, Suparna Karmakar. Prince Kumar, "STRATEGY TO CREATE VARIABLE KEYS IN MODERN CRYPTOGRAPHY",** International Journal of Progressive Research in Engineering Management and Science Volume 07, Issue 07 July 2022.

- **Sushmita Paul, Sarbajit Ghosh, Chowdhury Md Mizan "A SURVEY OF MULTIBIOMETRIC SYSTEMS",** International Journal of Scientific Research in Engineering and Management (IJSREM) Volume 06, Issue 06 July 2022.

- **Sudeep Ghosh, SK Hafizul Islam, Abhishek Bisht, Ashok Kumar Das, "Provably Secure Public-Key Encryption with Keyword Search Scheme for Data Outsourcing in Cloud Environment"** Journal of System Architecture SCI Indexed, IF-5.83 2023 Volume 139,102876, ISSN 1383-7621, https://doi.org/10.1016/j.sysarc.2023.102876

- **Tridib Chakroborty, Sudeep Ghosh, Md. Mizan Chowdhury, Trishita Ghosh ,Suparna Karmakar, Gopal Pramanik,** Saransh Sinha "Automatic Number PLATE Recognitionby Employing Deep Learning Methods" GRADIVA REVIEW-JOURNAL, VOLUME 9 ISSUE 5, May 2023. Scopus Index.

- **Tridib Chakroborty, Sudeep Ghosh, Gopal Pramanik**, **Cheryl Mukherjee**, **"Stock market Trend Prediction Using LSTM Model for Future Prediction"** GRADIVA REVIEW-JOURNAL, VOLUME 9 ISSUE 5, May 2023. Scopus Index.

- Biswas, S., Maity, P., Bhattacharya, S., Goswami, A., **Karmakar, S**. (2023). **A Time Saving Image Segmentation Technique and Its Application to Detect Cotton Leaf Spot.** In: Shukla, A.K., Sharma, B.P., Arabkoohsar, A., Kumar, P. (eds) Recent Advances in Mechanical Engineering. FLAME 2022. Lecture Notes in Mechanical Engineering. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-1894-2_31

- **Chowdhury Md Mizan,**Soudip Panja, Radha Kumari, Oiendrila Banerjee, "**Face Detection and Recognition Using OpenCv"** GIS Science Journal VOLUME 10, ISSUE 5, June 2023, ISSN NO : 1869-9391, pp-1293-1299. (Scopus Index).

- **Chowdhury Md Mizan, Tridib Chakraborty, Trishita Ghosh, Suparna Karmaka, Sudeep Ghosh**, Mojibul Rahaman "Biometric software that maps human Face Recognition Using Python" GIS Science Journal VOLUME 10, ISSUE 5, May 2023, ISSN NO : 1869-9391, pp-772-778. (Scopus Index).

- **Tridib Chakraborty, Sudeep Ghosh, Chowdhury Md Mizan,** Raunak Sil**"** Quantum Computing: a Detailed Overview" GIS Science Journal VOLUME 10, ISSUE 5, May 2023, ISSN NO : 1869-9391, pp-2007-2022. (Scopus Index)

DEPARTMENT: FT

National Conference

- Sayamdipta Das Chowdhury, Sayani Debnath, **Shubhobrata Saha, Souptik Bhattacharya, "Nanotechnology In Food Processing And Food Packaging Industry"**, 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (FOSET), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.

- Ahana Laha, Koushani Chakraborty, **Saikat Mazumder, Amit Barman**,"**Overview Of Technique For Food Preservation And Effect Of Preservatives On Human Health"**, 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (FOSET), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.

- Sagnik Saha, Santanu Dutta, Pritish Das, **Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly**, **"Study On Different Extraction Methods Of Food Biocolour",** 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (FOSET), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.

- Anushka Biswas, Dipika Bepary, Sharmeen Naaz, **Dolanchapa Sikdar, Monika Paul, "Emulsifying Properties By Non-Thermal Microwave Treatment Of Sunflower Protein: A Review"**, 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (FOSET), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.

International Conference

- **Souptik Bhattacharya**, Aditi Sarkar, Sayani Sarkar, Sreemoyee Chakraborty, AICTE Sponsored International Conference on Communication, **Application of Green Nanotechnology in Food Process Engineering, Computing and Nano-Microwave Technology** (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- Anisha Das, Aliul Islam, Suditi Jana, Rikta Chakraborty, Monika Paul, **Saikat Mazumder**, **Detection of pesticides using Nanosensors**, AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- Oindrila Mazumder, Sukanya Ray, Priyanka Majumdar, Parag Chattopadhyay, Satwik Bhunia, **Dr. Kakali Bandyopadhyay**, "**Heat Exchange in Microwave Heating with Rice Bran Oil: A Review**", AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- **Kakali Bandyopadhyay**, Saurjaynee Biswas, **Shairee Ganguly**, "**Studies on Utilization of Microwave Heating on Protein Extraction from Ricebran",** AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- Srishti Mandal, Joyita Khan, Purnasha Paul, **Shairee Ganguly, Kakali Bondyopadhyay**, "**Preservation of Perishable Food Commodities by Nano-Heat Transfer of Pulsed Indigo-Blue LEDIrradiation Technology"**, AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- Srijan Das, Ritabina Ghosh, Varsha Singh, **Dolanchapa Sikdar**, "**A Review: Applications of Energy production by nanomaterials",** AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.

International Journal

- **Souptik Bhattacharya**, Application of ultrasonication and PEGylation as green extraction technology for yield intensification of diallyl thiosulfinate (allicin)." Process Biochemistry, Elsevier, 130 (2023): 300-309, https://doi.org/10.1016/j.procbio.2023.04.015
- **Souptik Bhattacharya**, Dwaipayan Sen, and Chiranjib Bhattacharjee, Inhibition mechanism study for diallyl thiosulfinate (allicin) against crucial bacterial proteins through in silico molecular docking simulation. Process Biochemistry, Elsevier, 122 (2022): 110-119, https://doi.org/10.1016/j.procbio.2022.09.026. (collaborative work)
- Konishka Santra, Soumajit Ghosh, Sudip Paul, **Shairee Ganguly,** IoT Based Thermoelectric Mini Cold Storage Unit Operated by Peltier Effect, International Journal for Modern Trends in Science and Technology, 9(05): 1-8, 2023, ISSN: 2455-3778 online DOI: https://doi.org/10.46501/IJMTST0905001
- **Riya Dasgupta**, Snehadrita Kundu, Riona Saha, Sudipta Adhikary, **Shairee Ganguly,** Valorization of Food Processing Industrial Wastes: A Pathway towards Sustainable Environment,International journal of research and analytical reviews, May 2023, Volume 10, Issue 2, ISSN 2348-1269
- O. Mazumder, P .Majumdar, S. Bhunia, R. Pahari, R., A. SK.Masud, **K. Bandyopadhyay**, Development and Utilization of Food Bio-Colours: A Review,, *International Journal for Modern Trends in Science and Technology*, 9(04): 396-400, 2023, UGC Approved Journal (UGC Journal Id : 43137), ISSN: 2455-3778, Impact Factor:4.175, DOI: *https://doi.org/10.46501/IJMTST0904058*
- **Kakali Bandyopadhyay**, Elina Sur, Indranil Das, Junaid Ahmed Ansari, Neha Basfore and Poulami Deb, A Review on Pea Peel used as a Biodegradable Food Waste, *International Journal for Modern Trends in Science and Technology*, 9(05):579-584, 2023, UGC Approved Journal (UGC Journal Id : 43137), ISSN: 2455-3778, Impact Factor:4.175, https://doi.org/10.46501/IJMTST0905099

- **Shairee Ganguly**, Dipa Biswas and **Kakali Bandyopadhyay**, Study on characterization of multisource edible oils containing chia seed oil and self-stable vegetable oils. *Food Measure* (2023). Impact Factor: 3.4, SCI Indexed, https://doi.org/10.1007/s11694-023-02031-2

DEPARTMENT: ECE

National Conference

- **Koushik Pal, Palasri Dhar, Avali Banerjee, Pranav Kumar, Chirag Lal, Nandinikumari Singh,"An Advanced Indoor Navigation System using Li-Fi"** FOSET,2022, 11th September.
- **Nabaneeta Banerjee, Sayan Roy, Atrajit Debnath, Smita Kundu, "Need of Oximeter in pandemic situation",** 12th Academic meet Forum of Scientists, Engineers & Technologists (FOSET), 10-11September, 2022.
- **Nabaneeta Banerjee, Pratyusha Bhattacharjee, Souvik Dey, Juhi Paul, Abhirup Bhowmik, "A User Interface for Students to Register their Names for School Trip",** 12th Academic meet Forum of Scientists, Engineers & Technologists (FOSET), 10-11 September, 2022.
- **Nabaneeta Banerjee, Sneha Dey, Rishavi Sarkar, Abhirup Bhowmick, "Arduino Based Semi-Automatic Floor Cleaning Machine",** 12th Academic meet Forum of Scientists, Engineers Technologists (FOSET), 10-11 September, 2022.
- **Soma Boral,Soumyadeep Ghosh,Debasis Saha,Anish Roy, Mantsiz Zinath,Sukhendu Aguan "AUTOMATED BABY CRADLE:A STEP TOWARDS INNOVATION"** , Communication,Computing and Nano Microwave Technology(CCNMT-2022) organized by GNIT, Sodepur, Kolkata, India from 8-9th July, 2022(ISBN No: 978-93-5593-089-7)
- **Soma Boral, Arun K Mondal,Chandrima Banerjee, Ahmed Reza "Blockchain Based EncryptionSystem",** Communication ,Computing and Nano Microwave Technology(CCNMT-2022)organized by GNIT, Sodepur, Kolkata, India from 8-9th July, 2022
- **"Unmanned Rescue Ground Vehicle: A Surveillance To War Field",** Soumyadeep Ghosh, Anisha Roy and Surajit Basak, PRAYAS-2023, 28th April, 2023. [Awarded 2nd best paper]

International Conference

- **Anurima Majumdar , Antara Ghosal, "ML Based Customer Review Management System",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Suparna Biswas et. al., "Continuous and Discrete Wavelet Transform Based Electrocardiogram Signal Analysis for Diagnosis of Arrythmia",** Proc. of International conference on Communication, Computing and Nano-Microwave Technology, July 2022. (ISBN: 978-93-5593-089-7).
- **Suparna Biswas, Sayan Roy Chaudhuri, "A Study of Machine Learning based Heart Disease Detection Method",** Proc. Of International conference Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Suparna Biswas et. al, " Deep Neural Net Based Approach For Air Pressure Prediction"** Second International Conference on Innovations in Software Architecture and Computational Systems (ISACS 2022), 21-22 July 2022.
- **Kaushik Roy et. al., "Advanced Smart Medicine Box using Arduino",** Proc. of International conference on Communication, Computing and Nano-Microwave Technology, July 2022. (ISBN: 978-93-5593-089-7)
- **Koushik Pal, Antara Ghosal, Anurima Majumdar, Avali Banerjee, Palasri Dhar, "Webpage Development for Customer",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7).
- **Avali Banerjee, et.al "Microstrip Antenna – A Review",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Surajit Basak et. al., "Education Portal: An effective way to implement the digitalized process in Learning"** , International Conference on Communication, Computing and Nano-MicrowaveTechnology, July 2022 (ISBN: 978-93-5593-089-7)
- **Surajit Basak et. al. "A Deep Study on Silent Sound Technology",** International Conference onCommunication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Sunipa Roy,Palasri Dhar "Facial Emotion Recognition (FER) based on Deep neural Network – A Review"** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)

- **Palasri Dhar, Soumik Podder, Sunipa Roy, Ayantika Goswami, Hritika Saha, Swagata Bhattacharya, " Junctionless FET in Label Free Biosensing- A State of the Art Review",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)

- **Soumik Podder, Sunipa Roy, "Reactive Oxygen Species (ROS) Sensing- A Nanoscale Transistorized Approach"**, 2022 IEEE Electron Device Kolkata Conference, November 2022, Kolkata.

- **Palasri Dhar, Sunipa Roy, Soumik Podder "Negative Capacitance ultra-conductive Junctionless Tunnel FET based biosensor**." International Conference on ADVANCED MATERIALS & MICROELECTRONICS: DESIGN to DEVELOPMENT,25-26th August 2022

- **Nabaneeta Banerjee, Sneha Dey, Abhirup Bhowmick, Rishavi Sarkar, Aritra Biswas, "Arduino Based Semi-Automatic Floor Cleaning Machine**", International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7).

- **Palasri Dhar, Soumen Bej, Sunipa Roy, Soumik Podder, "Biosensing attributes of Trench Double Gate Junctionless Field Effect Transistor "**5th International Conference of DevIC series "2023 Devices for Integrated Circuit (DevIC 2023)",pp.460-464, doi: https://doi.org/ https://doi.org/10.1109/DevIC57758.2023, IEEE Xplore, e-ISBN: 979-8-3503-4726-5.

International Journal

- **Dr. Suparna Biswas, "Performance Improvement of Face Recognition Method and Application for the COVID-19 Pandemic"**, Acta Polytechnica Hungarica-Journal of Applied sciences, (SCI, IF: 1.88) Accepted in July 2022.

- **Dr. Suparna Biswas, Rabel Guharoy and Nanda Dulal Jana, An Efficient Epileptic Seizure Detection Technique using Discrete Wavelet Transform and Machine Learning Classifiers**,

July 2022, Volume 2286 , Journal of Physics (Scopus, IF:0.55) https://doi.org/10.1088/1742-6596/2286/1/012013

- **Dr.Suparna Biswas, Performance Improvement of Face Recognition Method and its Application in COVID-19**, July 2022,Volume 2286, Journal of Physics (Scopus, IF:0.55), https://doi.org/10.1088/1742-6596/2286/1/012022

- **Soumik Podder, "IOT BASED SMART MIRROR USING RASPBERRY PI"**International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Volume 11, Issue 1, Jan-2023, DOI:10.22214/ijraset.2023.48583,Impact factor-7.538.

- **Soumik Podder, "ARDUINO BASED SMART IRRIGATION SYSTEM",** International Research Journal of Modernization in Engineering Technology and Science(IRJMETS),ISSN:2582-5208,Volume05,,Issue1,Jan-2023,DOI:10.56726/IRJMETS 33090, Impact factor-6.752

- **Soumik Podder, "Machine Learning Inspired Smart Agriculture System with Crop Prediction"**,International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653, Volume 11, Issue 1, Jan-2023, DOI:https://doi.org/10.22214/ijraset.2023.48841, Impact factor: 7.538

- **Nabaneeta Banerjee, Sunipa Roy, Antara Ghoshal, Palasri Dhar, Anurima Majumder, "Review on Green Energy"** published in INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Volume 9 Issue 2 ,ISSN: 2349-6002.

- **Nabaneeta Banerjee, Sayani Sinha, Purbasa Basu, Sidhartha Das, Swapnadip Barman, Abhirup Bhowmick, Automatic Fire Rescue System**, published in INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Volume 9 Issue 2 ,ISSN: 2349-6002.

- **Sunipa Roy, Swapan Das, Nabaneeta Banerjee, "Design optimization of Microheater for gas sensor using Genetic algorithm**", AIP (SCOPUS), Accepted, December 2022, Article in press.

- **Sunipa Roy, Swapan Das,Soumik Podder, "Effect of electrode positioning on methane sensing performance of gas sensor**", AIP (SCOPUS), Accepted, December 2022, Article in press.

- **Sunipa Roy, Paramita Banerjee, Ayantika Goswami, "Quartz crystal microbalance sensors in various engineering fields: A Review",** Bulletin of Environment, Pharmacology and Life Sciences (SCOPUS), Vol 10, Issue 11, October 2021, , pp-192-198.

- **"Nanozymes Induced Air Purification- A State of the Art Review" Soumik Podder,** Recent Research Reviews Journal (rrrj),Volume 2, Issue 1, p. 11-26,June 2023.

- **"Design And Development Of Automated Self Recoverable Drone", Soumik Podder** American Journal of Advanced Computing(AJAC) (Accepted for publication).

- **'Physical Layer Security Analysis in Decode and Forward Relay Assisted Energy Harvested Wireless IoT Networks',** Surajit Basak, Kaushik Roy, Souman Bej; Sourav Paul, Gradiva Review Journal, Volume 9, Issue 6, p.1068-1075, 2023(Scopus).

- **'Green Synthesis of Noble Metal Nanoparticles: A Review',** Kaushik Roy, Gradiva Review Journal, Volume 9, Issue 4, p.99-106, 2023 (Scopus).

- **Smart Mirror with Artificial Intelligence, Soumik Podder,** American Journal of Advanced Computing(AJAC) (Accepted for publication)

- **Palasri Dhar, Soumen Bej, Sunipa Roy, Soumik Podder, "Biosensing attributes of Trench Double Gate Junctionless Field Effect Transistor "**5th International Conference of DevIC series "2023 Devices for Integrated Circuit (DevIC 2023)", pp.460-464, doi: https://doi.org/ https://doi.org/10.1109/DevIC57758.2023, IEEE Xplore, e-ISBN: 979-8-3503-4726-5.

BOOK CHAPTER & BOOK

- **Suparna Biswas, Sayan Roy Chaudhuri, (November 2022). Fuzzy Logic-Based Air Conditioner System.** In Convergence of Deep Learning In Cyber-IoT Systems and Security (eds R. Chakraborty, A. Ghosh, J.K. Mandal and S. Balamurugan). https://doi.org/10.1002/9781119857686.ch7 (Scopus indexed)
- **Palasri Dhar,Soumik Poddar,Sunipa Roy (January 2023).Ultra conductive Junctionless Field Effect Transistor based biosensor with negative capacitance-Advanced Nanoscale MOSFET Architectures**:Current Trends and Future Prespectives.(Apple Academic Press)(Accepted –Article in press)
- **Sunipa Roy, Milan Dhara, " Technological development of Graphene and Graphene nanocomposite based supercapacitor electrode**", Low dimensional nanoelectronic devices, ISBN: 9781003277378, October 2022, CRC Press.
- **Sunipa Roy, Abhijit Kumar Pal " Sensing using Memristive approach: Governing physics and instrumentation challenges",** Low dimensional nanoelectronic devices, ISBN: 9781003277378, October 2022, CRC Press.
- **Anurima Majumdar, Sunipa Roy, Chinmay Chakraborty, "An Analytic Approach to Diagnose Heart Stroke Using Supervised Machine Learning Techniques**" Intelligent Healthcare Infrastructure, Algorithms and Management, ISBN: 9789811681509, Springer Nature., July 2022.
- **Avali Banerjee, Shobhandeb Paul, "A Predictive Analysis for Diagnosis of COVID-19, Pneumonia and Lung Cancer Using Deep Learning**" Intelligent Healthcare Infrastructure, Algorithms and Management, ISBN: 9789811681509, Springer Nature., July 2022.
- **Suparna Biswas. (19th June, 2023). A Time Saving Image Segmentation Technique and Its Application to Detect Cotton Leaf Spot**. In: Shukla, A.K.,Sharma, B.P., Arabkoohsar, A., Kumar, P. (eds) Recent Advances in Mechanical Engineering. FLAME 2022. Lecture Notes in Mechanical Engineering. Springer,Singapore. https://doi.org/10.1007/978-981-99-1894-2_31(Scopus)
- **Suparna Biswas, Soumik Podder, "APPLICATION OF IOT IN SMART FARMING AND PRECISION FARMING: A REVIEW, Fog Computing for Intelligent Cloud IoT System,** Scrivener Publishing , Wiley Online Library. (In Press) (Scopus)
- **Soumik Podder, Sunipa Roy, Effect of Electrode Positioning on Methane Sensing Performance of Gas Sensor,** Innovations in Softwware Architecture and Computational Systems, American Institute of Physics (AIP) (SCOPUS and WoS)

- **Soumik Podder, Suparna Biswas, Sagnik Banerjee, Shaunak Das, Shibam Sanyal, "Blockchain Inspired Hi-Tech Agriculture- A State of the Art Review**; for the upcoming book,;Advanced Technologies and AI-Equipped IoT Applications in High-Tech Agriculture published by IGI Global in 2023 (SCOPUS)

Book published:

- **"Solid State Devices and Microelectronics", Sunipa Roy,** Chandan Kumar Ghosh, Sayan Dey,Abhijit Kumar Pal, Bentham Science Publishers, Pre-Print stage, Article in press.

DEPARTMENT: ASHU

National Journal

- **Pratim Chatterjee, Namrata Chakrabortty, Ayan Mukhopadhyay, "Confidence Building Strategy of Hospitality Industry Amidst COVID 19 Pandemic"** in International Journal of Scientific Research in Engineering and Management (IJSREM), Volume: 06 Issue: 09 | September - 2022 Impact Factor: 7.185 ISSN: 2582-3930

International Conferences

- **Sucharita Bhattacharyya & Anup Kumar Thander,** Higher Order Compact Finite Difference Method in the Study of Slab Wave-Guide Communication, Published in the Proceedings of International Conference CCNMT July, 2022 (ISBN : 978-93-5593-089-7), pp 156-161 July 2022

- **Dr.Sucharita Bhattacharyya, Anwesh Bhowmick, BIT MesSmart Natural Technology & Maintenance of Sustainable Aquatic Environment: A Study During Lockdown**, at 6th International EcoSummit, 13 – 17 June 2023, Gold Coast, Australia (Co-author :ra, Ranchi.)

- **Dr. Sucharita Bhattacharyya & Dr. Anup Kumar Thander,** ***Application of Finite Difference Method (FDM) to study Slab Waveguide Communication with Fourth-Order Compact Scheme***, at OICSD, 29-30 June, 2023, Asansol Engineering College.

- **Sanjoy Biswas, Dr. Samir Dey, A New Approach to Solve a Multi- Objective Structural Model under Neutrosophic Environment**, *International Conference on Data Analytics and Insights, ICDAI 2023, 11-13 May 2023, TINT Kolkata*

- **Sanjoy Biswas, Dr. Samir Dey, Hesitant Fuzzy Approach for Multiobjective nonlinear Structural Design Problem under Uncertainty, at OICSD,** *29-30 June, 2023, Asansol Engineering College.*

- **Sanjoy Biswas, Dr. Samir Dey,Structural Design Optimization Using Parabolic Hesitant Fuzzy Numbers in Spherical Fuzzy Environment, at OICSD**, *29-30 June, 2023, Asansol Engineering College.*

National Conferences

- **Dr. Soma Mukherjee , Biswajit Mandal, Aparna Shaw , and Dr. Indrani Sarkar** : "FLOOD MANAGEMENT BY USING AI TECHNOLOGY" in the conference NCSTCS 2K22 held during 9-10th Sept 2022

- **Dr. Indrani Sarkar, Saswata Ghosh, Dr. Soma Mukherjee, "** Use of Nanotechnology for Water Purification Process: Indian Scenario" in the conference NCSTCS 2K22 held during 9-10th Sept 2022

- **Dr. Sucharita Bhattacharyya, *Solar Energy in India : The Environmental Impacts,*** in FOSET 2023 , organised at SNU on 23.04.2023 (Co-author : Suravi Ghoshal CSE & Debangi Chakraborty, ECSE, GNIT)

- **Dr. Sucharita Bhattacharyya, Solar Energy & Smart City : The Status in India**, in FOSET 2023, organised at SNU on 23.04.2023 (Co-author : Arghya Mondal, ECE, GNIT)

- **Dipanjan Bhattacharjee,** ***Implementation of Hydrogen energy and resolving the key problems*** , in FOSET 2023, organized at SNU on 23.04.2023 (Co-author : Sayani Konar & Sreeja Sinha , CSE 1st year)

- **Dipanjan Bhattacharjee,** ***Hydrogen Based Nuclear Reaction,*** in FOSET 2023, organized at SNU on 23.04.2023 (Co-author : Pratap Hazra & Raj Kumar Kumar Saha , dept of EE, GNIT)
- **Soma Mukherjee,** ***E-waste for sustainable development: Indian Scenario***, in FOSET 2023, organized at SNU on 23.04.2023 (Co-author : Diprit Turul, Pramila Das, Aritra Chakraborty, CSE, GNIT & Susinjan Bhattacharya, The Neotia Univ)

- **Soma Mukherjee,** ***Antibiotics: Emerging need for an alternative in Agriculture and Medicine,*** in FOSET 2023, organized at SNU on 23.04.2023 (Co-author : Sumit Boswas, Partha Pratim Mandal & Susinjan Bhattacharya, The Neotia Univ)

International Journal

- **Dr.Sucharita Bhattacharyya,** ***Lockdown impact on dolphins as an aquatic health indicator and maintenance of sustainable Gangetic ecosystem: An overview***, in Journal of Applied & Natural Science , ISSN : 0974-9411, 15(2), 594-601 (2023) (Co-author : Anwesh Bhowmick, BIT Mesra, Ranchi).

- **Dr.Sucharita Bhattacharyya,** ***Solar Energy & Smart City : The Status in India*** , in American Journal of Advanced Computing (Accepted in June 6, 2023) (Co-author : Arghya Mondal, GNIT)

- **Sanjoy Biswas, Dr. Samir Dey, "*Intuitionistic Hesitant Fuzzy Algorithm for Multi-Objective Structural Model Using Various Membership Functions*** ", Transactions on Fuzzy Sets and Systems, (2023) DOI:10.30495/TFSS.2023.1976999.1062

Book Chapter

- **Dr.Sucharita Bhattacharyya,** ***Smart Natural Technology & Maintenance of Sustainable Aquatic Environment: A Study During Lockdown,*** in *Abstract Book ECOS 2023* on the occasion of 6th International EcoSummit, 13 – 17 June 2023, Gold Coast, Australia (Co-author : Anwesh Bhowmick, BIT Mesra, Ranchi.)

- **Dr. Sucharita Bhattacharyy & Dr. Anup Kumar Thander,** ***Application of Finite Difference Method (FDM) to study Slab Waveguide Communication with Fourth-Order Compact Scheme,*** *in Abstracts Proceedings of International Conference -OICSD-2023* , ISBN : 978-62-061744-00

- **Sanjoy Biswas, Dr. Samir Dey,** ***Hesitant Fuzzy Approach for Multiobjective nonlinear Structural Design Problem under Uncertainty,*** *in Abstracts Proceedings of International Conference -OICSD-2023* , ISBN : 978-62-061744-00

- **Sanjoy Biswas, Dr. Samir Dey,*****Structural Design Optimization Using Parabolic Hesitant Fuzzy Numbers in Spherical Fuzzy Environment,*** *in Abstracts Proceedings of International Conference -OICSD-2023* , ISBN : 978-62-061744-00

- **Soma Mukherjee,** ***E-waste for sustainable development: Indian Scenario,*** in FOSET 2023, organized at SNU on 23.04.2023 (Co-author : Diprit Turul, Pramila Das, Aritra Chakraborty, CSE, GNIT & Susinjan Bhattacharya, The Neotia Univ) in the Proceedings of FOSET 2023

- **Soma Mukherjee,** ***Antibiotics: Emerging need for an alternative in Agriculture and Medicine,*** in FOSET 2023, organized at SNU on 23.04.2023 (Co-author : Sumit Boswas, Partha Pratim Mandal & Susinjan Bhattacharya, The Neotia Univ), in the Proceedings of FOSET 2023

DEPARTMENT: EE

National Conferences

- **Aveek Chattopadhyaya, "ECG Based Heart Disease Detection Method",** 12th Inter-University Engineering Science & Technology, Academic Meet-2022, Forum of Scientists, Engineers & Technologists (FOSET), GNIT, Kolkata, 11th September, 2022.

- **Susovan Dutta,Barnali Kundu, Rikta Majumder, "GSM Based Smart Power Monitoring",** 12th Inter-University Engineering Science & Technology, Academic Meet-2022, Forum of

Scientists, Engineers & Technologists (FOSET), GNIT, Kolkata, 11th September, 2022.

- **Debasree Saha,Barnali Kundu,"Review of An efficient Scientific Calculator",** 12th Inter-University Engineering Science & Technology, Academic Meet-2022, Forum of Scientists, Engineers & Technologists (FOSET), GNIT, Kolkata, 11th September, 2022.

- **Shyamal Kumar Roy, Suman Ghosh, Madhumita Chakraborty, Amit Debnath, Kaushik Maji, Sushovon Paul, "Smart Traffic System Using Arduino",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

- **Subhamoy Dey, Souvik Pal, Aniruddha Sengupta, Manoshi Das, Dr. Barnali Kundu' "Automated Transmission Line Fault Detection Using Distance Locator",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

- **Tushar Ghosh, Sahil Mondal, Soumya Das, Amit Debnath, Susovan Dutta, "Home Automation Using Node-MCU Wifi Module",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

- **Aditi Maity, Diya Barui, Suman Ghosh, Barnali Kundu Sarkar, Shyamal Kumar Roy, Aveek Chattopadhyaya' "Optimal Placement of Phasor Measurement Unit for Complete Observability of the Power System",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

International Conferences

- **Aveek Chattopadhyaya, "Continuous and Discrete Wavelet Transform Based Electrocardiogram Signal Analysis for Diagnosis of Arrythmia",** AICTE Sponsored International Conference on Communication, Computing and Nano Microwave Technology (CCNMT-2022), July 8 – 9, 2022 at GNIT-Kolkata (Session Best Paper Award for Track 7).

- **Suman Ghosh, Shyamal Kumar Roy, AveekChattopadhyaya, Arnab Kumar Roy, "Integration of FACTS Controllers to the Distribution Network for Loss Reduction and Power Quality Improvement",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **Rikta Majumder, "DTMF based home appliance control",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **Rikta Majumder, Subhra Sen, "Design of a Micro-Grid System which helps Hospitals increase resilience, cut costs and improve sustainability",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **Madhumita Chakraborty, Barnali Kundu, "A Brief Review on Battery Modelling and State of Charge Estimation of Battery",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **Susovan Dutta, Bishaljit Paul, BarnaliKundu,** "Modelling Impact Analysis of EVCSL and Effect of Renewable Mix in Distribution Grid", Fifth International Conference on Electrical, Computer and Communication Technologies (ICECCT), Erode, India, 22-24 February 2023. Published in IEEE Digital Library, DOI: 10.1109/ICECCT56650.202310179760.

- **Barnali Kundu, Susovan Dutta, Debasree Saha, "Cloud Based Intelligent Accident Proof Helmet and Detect State ofIntoxication",** 3rd International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023), JCT College of Engineering and Technology, 2-4, February 2023.

International Journal

- **AveekChattopadhyaya**, "ANN-Based Statistical Computation for Remote End Fault Monitoring of the IEEE 14 Bus Microgrid Network", IETE Journal of Research, Taylor & Francis, 07th March, 2023, pp. 1-15, DOI: 10.1080/03772063.2023.2182371.

- **Susovan Dutta,Barnali Kundu, Rikta Majumder,** "GSM Based Smart Power Monitoring",AMERICAN JOURNAL OF ADVANCED COMPUTING, Volume 1, Issue 1, https://doi.org/10.15864/ajac.21007.

DEPARTMENT: ECSE

National Conference

- **Mrinmoy Dutta, Nabamita Paul, Santana Das, Deepa Saha, Somdutta Banerjee, "Non invasive detection of diabetes"** 12 th Inter- University Engineering Science; Technology, Academic Meet-2022, 11 th September, 2022, organised by Forum ofScientists, Engineers & Technologists (FOSET).

International Conference

- Bapita Roy, Suparna Maity,Santana Das, Nabamita Paul,Anisha Chowdhury, Hindol Bhowmick, Anirban Saha,Design of an IoT based biomedical data integration system; by AICTE sponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022),08-09 th July,2022, ISBN: 978-93-5593-089-7

International Journal

- **Bapita Roy , Shilpita Hazra**, Smart Economical Irrigation and Air Pollution Control and Monitoring System for Rural and Industrial Area", Pramana Research Journal Pramana Research Journal,30 th June 2022, 2249-2976, https://www.pramanaresearch.org/VOL-12-ISSUE-6-2022/ DOI:16.10089.PRJ.2022.VI12I5.20.15004

2021-22

DEPARTMENT: CSE

International Journal

- **Ipsita Saha**, Tatiana S. Smirnova, Vladimir A. Maryev, "**Implementation of Eco-Industrial Park for Effectual Establishment of Circular Economy in Russia**", Nature Environment and Pollution Technology, Vol. 20, No.5 (October, 2021), pp. 2031-2040.(Scopus Indexed)

- **Amrut Ranjan Jena, Raja Das, D. P. Acharjya, " An Integrated Approach for Prediction of Radial Overcut in Electro Discharge Machining using Fuzzy Graph Recurrent Neural Network",** Int. J. Embedded Systems , Vol. 4, No. 4, 2021. (SCOPUS & WoS, IF-1.2)

- **Mrs. Srabani Biswas, "Real Time Event Area Localization and Estimation in Smart Environments Based on A Realistic Sensing Model",** International Journal of Communication Networks and Distributed Systems, Accepted (SCOPUS).

- **Suman Bhattacharya, Mahamuda Sultana,** "A Comprehensive Survey on Bird Species Identification Models" International Journal of Computer Information Systems and Industrial Management Applications. Scopus (2021) ISSN: 2150-7988.2021

- **Suman Bhattacharya, Mahamuda Sultana,** Bikramjit Das, Biplab Roy**, "A Deep Neural Network Framework for Detection and Identification of Bengal Tigers"** Innovations in Systems and Software Engineering, Scopus, ESCI (Springer) (2022) ISSN: 1614-5046

- **Dr. Ananjan Maiti.** "Building of an edge enabled drone network ecosystem for bird species identification." Ecological Informatics 68 (2022): 101540.

- **Amrut Ranjan Jena**, "An integrated approach for prediction of radial overcut in electro discharge machining using fuzzy graph recurrent neural network."published in *International Journal of Embedded Systems*, *14*(4), pp.345-354, 2021

- **Amrut Ranjan jena**, Madhusmita Mishra, **Rantadeep Mazumder** "A Framework for Emotion Detection using Open Source Computer Vision and Convolutional Neural Network" Vol. 12 - No. 4 (April 2022), International Journal of Engineering Research and Applications, ISSN: 2248-9622.

- **Sourish Mitra**,**Pallabi Das,** Nilimesh Chakraborty, Sounak Majumdar, Tiyasa Barman, Poulomi Das, Riya Pahan, Tiyas Ghosh**," IoT Based Saplings Protection System against Unsuitable Natural Climate",** published in International Journal for Research in Applied Science & Engineering Technology

(IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, May-2022, DOI: 10.22214/ijraset.2022.43526, Impact factor-7.538.

- **Sourish Mitra**, Subhaditya Banerji , Reshmi Das, Sayan Sarkar**, Pallabi Das, Bidyutmala Saha, Rafiqul Islam , Rupak Chakraborty" Virtual Reality (VR) and Augmented Reality (AR) Based 360 Degree Panoramic Environment Generator for Virtual Tour",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, May-2022, DOI: https://doi.org/10.22214/ijraset.2022.43632, Impact factor-7.538.

- Prithviraj Biswas, Rohan Chakraborty, Tathagata Mallik, Rohan Chakraborty, Sk Imran Uddin, Shreya Saha, **Pallabi Das, Sourish Mitra, " Flight Price Prediction: A Case Study",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022, DOI: https://doi.org/10.22214/ijraset.2022.43666, Impact factor-7.538.

- Amlan Dutta, Abhijit Pal, Mriganka Bhadra, Md. Akram Khan, **Rupak Chakraborty, Sourish Mitra, Rafiqul Islam, Nirupam Saha, "Object Detection Technique using a fast R-CNN based Technique",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022, DOI: https://doi.org/10.22214/ijraset.2022.44112, Impact factor-7.538.

- Neela Chattyopadhyay, Hrittika Maity, Bipsa Debnath, Debanjana Ghosh, **Rupak Chakraborty, Sourish Mitra, Rafiqul Islam, Nirupam Saha**, "**Classification of MNIST Image Dataset Using Improved Convolutional Neural Network",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022, DOI: https://doi.org/10.22214/ijraset.2022.44111, Impact factor-7.538.

- **Moloy Dhar,** Paromita Saha, **Nirupam Saha, Sourish Mitra, Bidyutmala Saha, Pallabi Das, Rafiqul Islam, Sutapa Sarkar**, "**Object Detection using Deep Learning Approach",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022,Impact factor-7.538.

- Arindam Dutta, Ekta Sardar, Sarbani Dutta, Sushmita Saha, **Rupak Chakraborty, Moloy Dhar, Sourish Mitra, Biswajit ChakiChoudhury," Identification of Cancerous Cell from Noisy Images",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022,Impact factor-7.538.

International Conference

- **Rupak Chakraborty, Sourish Mitra, Rafiqul Islam, Nirupam Saha, Bidyutmala Saha, " An Improved Differential Evolution Scheme for Multilevel Image Thresholding Aided with Fuzzy Entropy",** Proceedings of International Conference on Innovations in Software Architecture and Computational Systems, Springer, October 12, 2021 (SCOPUS Indexed).

- **Sayani Chandra, Sangeeta Bhattacharya, and Srabani Kundu, "Suicide Ideation Detection in Online Social Networks: A Comparative Review",** Proceedings of International Conference on Innovations in Software Architecture and Computational Systems, Springer, October 12, 2021 (SCOPUS Indexed).

- **Amrut Ranjan Jena, Santanu Kr. Sen, Subhajit Pati, Snehashis Chakraborty, Soumik Sarkar, Subarna Guin, Sourav Mallick "A Framework for Predicting Placement of a Graduate using Machine Learning Techniques",** Proceedings of International Conference on Innovations in Software Architecture and Computational Systems, Springer, October 12, 2021 (SCOPUS Indexed).

- Sudeep Ghosh, **Mandira Banik**, Tridib Chakraborty,Chowdhury Md. Mizan, Trishita Ghosh, and Soumyadipta Basu " **Repairing TSVs for 3D ICs Using Redundant TSV**", In Proceedings of International Conference on Industrial Instrumentation and Control ICI2C 2021, Lecture Notes in Electrical Engineering (LNEE, volume 815), Springer,ISBN: 978-981-16-7011-4.

- **Moloy Dhar, "A Video based Uncertainty Technique for Human Action Recognition – A Deep Learning Approach",** 3rd International Conference of Communication, Devices and Computing (ICCDC 2021), Springer,(SCOPUS Indexed).

- **Pallabi Das, "Agile Methodology vs. Traditional Waterfall SDLC: A Case Study on Quality Assurance Process in Software Industry",** 2021 5th International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech).

- **Mandira Banik**, S. Ghosh, **Amrut Ranjan Jena**, Chakraborty, T., Ghosh, T. and Gupta, A., 2022. Approximate computing: Error Tolerant Adder. In *Applications of Networks, Sensors and Autonomous Systems Analytics* (pp. 113-123). Springer, Singapore.

- **Rupak Chakraborty**, Ashesh Roy Choudhuri, Barnali Guha Thakurata, Bipsa Debnath, Debanjana Ghosh, Hrittika Maity, Neela Chattopadhyay, "**MNIST Image Classification using Convolutional Neural Networks**", International Conference on Modeling, Simulation and Optimization (CoMSO 2021), Springer, NIT Silchar, December 16-18, 2021.

- **Rupak Chakraborty**, Amlan Dutta, Abhijit Pal, Ahmad Atik, Mriganka Bhadra, Md Akram Khan, "**Detection of Objects using a Fast R-CNN based Approach**", International Conference on Modeling, Simulation and Optimization (CoMSO 2021), Springer, NIT Silchar, December 16-18, 2021.

DEPARTMENT: ECE

International Journal

- **Dr. Kaushik Roy, "Smart Dustbin Utility System using IoT"**, International Journal for Research in Applied Science & Engineering Technology, vol. 9 (VIII), pp 2289-2292, Aug, 2021 (UGC approved). DOI: https://doi.org/10.22214/ijraset.2021.37675.
- **Koushik Pal, "A Novel Face Detection Technique Using Open CV"**, International Journal of Research in Engineering, Science and Management Volume 4, Issue 7, ISSN: 2581-5792, July 2021 page-121-124.
- **Koushik Pal, "Design of DGS Printed Antenna for Surface Ship Radar Applications"**, Turkish Online Journal of Qualitative Inquiry (TOJQI), e-ISSN 1309-6591, Publisher Science Research Society Vol-12, No-7, pp-9842-9849 (SCOPUS Indxed).
- **Koushik Pal "A New Type of Solar Energy Measurement System using PIC Controller",** International Journal for Research in Applied Science & Engineering Technology (IJRASET)ISSN: 2321-9653; Volume 9 Issue VI July 2021, page-5195-5199.
- **Koushik Pal, "A SELF-ACTIVATING PLAYFUL STEM ROBOT USING RASPBERRY PI"**, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 08 | Aug 2021, p-ISSN: 2395-0072, page 177-182.
- **Surajit Basak, "Design and Implementation of Drone with Jammer"**, International Journal of Engineering Science and Computing (IJESC), vol. 11, no. 7, pp. 28391- 28395, July 2021. ISSN: 2321 3361

- **Surajit Basak, "Bit Error Rate (BER) Comparison in AWGN Channel of BFSK and QPSK using Matlab and Simulink",** International Journal of Innovative Research in Technology (IJIRT), vol. 8, Issue 2, pp. 258- 261, July 2021. ISSN: 2349-6002.
- **Surajit Basak and Kaushik Roy, "Cross-Layer Routing for Outage Minimization in Multi-hop Ad hoc Networks",** International Journal for Research in Applied Science & Engineering Technology, vol. 9, Issue VII, July 2021.
- **Avali Banerjee et. al. "Analysis of Supervised Machine Learning Techniques for Diagnosis of Disease of Infant Baby"**, International Journal for Modern Trends in Science and Technology (IJMTST), Volume 7, Issue 06, 2021. ISSN: 2455-3778. DOI: 10.46501/IJMTST0706002..
- **Avali Banerjee et. al. "Ayushi Jaiswal TechDoc - System for Queue Management of Pharmacies and Online Consultation of Doctors",** International Journal for Modern Trends in Science and Technology (IJMTST), Volume 7, Issue 06, 2021. ISSN: 2455-3778. DOI: 10.46501/IJMTST0706006.
- **Sunipa Roy, Technological Development of Graphene and Graphene-Nanocomposite-Based Supercapacitor Electrode, Low-Dimensional Nanoelectronic Devices Theoretical Analysis and Cutting-Edge Research**, Book Chapter, Apple academic press ISBN: 9781774638668.29th September 2021.
- **Sunipa Roy, Sensing Using Memristive Approach, Governing Physics, and Instrumentation Challenges,Low-Dimensional Nanoelectronic Devices Theoretical Analysis and Cutting-Edge Research,** Book Chapter, Apple academic press. ISBN: 9781774638668. 29th September 2021.
- **Avali Ghosh, Sisir K. Das and Annapurna Das, "Digital Crosstalk between Triple Traces in aDouble Layer PCB",** International Journal of Electronics on 06th October 2021 (SCI). DOI: https://doi.org/10.1080/00207217.2021.1972476
- **Pijush Kanti Bhattacharjee, "Reforms in India Based on Sociological and Realist Schools of Jurisprudence"**, International Journal for Legal Research and Analysis (UGC approved), vol. 2,issue 4, pp. 4-11, Nov 2021, ISSN 2582-6433.
- **Pijush Kanti Bhattacharjee, "Identification Cause of Earth's Magnetism"**, International Journal ofTrend in Scientific Research and Development, vol. 6, issue 3, pp. 438-443, April 2022, ISSN 2456-6470.
- **Pijush Kanti Bhattacharjee**, **"Untold Facts of the Hindu Epic Ramayana",** Indian Journal of Applied Research (UGC approved), vol. 12, issue 05, pp. 23-25, May 2022, ISSN 2249-555X.
- **Pijush Kanti Bhattacharjee, Reforms in India Done by Sociological and Realist Jurisprudence**, Book, Lambert Academic Publishing, Germany, June 2022, ISBN 9786204977416.

- **Soumik Podder, Light Responsive Nanomaterials with Pro-oxidant and Anti-oxidant Activity,Emergent Materials** (WoS, SCOPUS), vol. 5, issue 2, pp 455-475, March 2022, ISSN 2522-5731.
- **Suparna Biswas, Sayan Roy Chaudhuri, Avali Banerjee, et. al.. "Automated Vacant Bed System using Robot Framework to Combat with COVID-19"**,in International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), e-ISSN 2320-9801,Volume 9,Issue 12, December 2021.
- **Sayan Roy Chaudhuri, Suparna Biswas et. al. "Internet Of Things (IOT) Based Smart Health Monitoring System",** International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653, Volume 9 Issue VII July 2021.
- **Sayan Roy Chaudhuri, Antara Ghosal, Suparna Biswas et.al. "Trajectory Planning in Robotic",** International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 9, Issue 7 July 2021
- **Sayan Roy Chaudhuri, Suparna Biswas et. al. "Implementation of Plastic Detecting Garbage Monitoring System using Machine Learning"**, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 10, Issue 4, April 2022.
- Koustab Maity, **Avali Banerjee**, **"An Application of IoT to revolutionize Agro Sector",**International Journal for Research in Applied Science & Engineering Technology (IJRASET),Volume 10 Issue I January 2022. ISSN: 2321-9653. DOI: 10.22214/ijraset.2022.39709.
- **Avali Banerjee**, Deepak Pandey, Mamata Singh, Atrayee Gayen, Kashish Rani, Prafulla Kumar Sahani, **"Our Indian Shop – E-Commerce Website Interconnecting the Farmers, Shopkeepers, Delivery Personnel and Consumers",** International Journal for Modern Trends in Science and Technology (IJMTST), Volume 7, Issue 12, December 2021. ISSN: 2455-3778. DOI:10.46501/IJMTST0712003 .
- Sourjyadip Sarkar, Sourav Paul, Soumyajit Goswami, Souman Bej, Saikat Ghorai, **Avali Banerjee, Suparna Biswas, "A Review on Security of Personal Credentials through Smart Technology using Advanced Digital Signatures",** International Journal of Technology and Empirical Research(IJTER), Volume 1, Issue 1, September 2021.

International Conference

- **Koushik Pal, "A Novel Agronomical Technology for Polar Region's Cultivation During Winter Dark",** 5th International Conference on Electronics, Materials Engineering & Nano-Technology, 24 to 26th September 2021, Kolkata

- **Souman Bej, Sourjyadip Sarkar, Soumyajit Goswami, Sourav Paul, Avali Banerjee, "A Review on Core Infrastructures for Establishment of a Smart City",** 5th International Conference on Electronics, Materials Engineering and Nano-Technology (IEMENTech -2021), Institute of Engineering & Management, Kolkata, 24-26th September 2021.

National Conference

- **Avali Banerjee,** Mamata Singh, Deepak Pandey and Kashish Rani, **"QuickDoc - Online Doctor Consultation and Queue Management of Pharmacies",** First Eastern Regional Conclave of Student's Chapter of The Institution of Engineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30th October 2021.

- **Avali Banerjee,** Shobhandeb Paul, Santanu Saha and Suvasish Paul, **"IOT Based Smart Baby Monitoring System",** First Eastern Regional Conclave of Student's Chapter of The Institution of Engineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30th October 2021.

- Sourjyadip Sarkar, Sourav Paul, Soumyajit Goswami, Souman Bej, Saikat Ghorai, **Avali Banerjee and Suparna Biswas, "Human Credentials and Security through Smart Technology using Advanced Digital Signatures",** First Eastern Regional Conclave of Student's Chapter of The Institution of Engineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30th October 2021.

- **Ayantika Goswami, Palasri Dhar**, Hrithika Saha, **Sunipa Roy,** Sumedha Bhattacharya, **Anurima Majumdar, Antara Ghosal, Avali Banerjee, "A Comprehensive Review on High Electron MobilityTransistor (HEMT)",** First Eastern Regional Conclave of Student's Chapter of The Institution ofEngineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30thOctober 2021.

- **Suparna Biswas, Sayan Roy Chaudhuri et. al. Detection of Various Plant Leaf Diseases: A Review**,First Eastern Regional Conclave of Student's Chapters of The Institution of Engineers (India),29-30,Oct 2021.

- **Sayan Roy Chaudhuri, Antara Ghosal, Kaushik Roy, Suparna Biswas et.al Design of BPSK/QPSK Modulator using Verilog HDL and Matlab**, First Eastern Regional Conclave of Student's Chapters of The Institution of Engineers (India),29-30 Oct 2021.

- **Sayan Roy Chaudhuri, s et. al. Underwater Drone With 360 Degree Camera Capture Based on Deep Learning**, First Eastern Regional Conclave of Student's Chapters of The Institution of Engineers (India),29-30 Oct 2021

- **Sayan Roy Chaudhuri et.al. Multi-modal image captioning system using VLAD encoded CNN and LSTM architecture,** First Eastern Regional Conclave of Student's Chapters of The Institution of Engineers (India),29-30 Oct 2021

DEPARTMENT: FT

National Journal

- **Kakali Bandyopadhyay and Shairee Ganguly, A review on physicochemical properties of edible oil: Before and after frying,** Indian Food Industry Mag, Vol 3(3) 11-16, July 2021, AFSTI-CSIR-CFTRI Mysore.

International Journal

- **Shairee Ganguly,** Poulami Banerjee, Deblina Sen, Writtika Das "Review on Anthocyanin Extraction from Different Natural Sources and Their Fortification in Non Alcoholic Beverages", International Journal for Modern Trends in Science and Technology (**2021**), 7, 0707032, pp. 63-67. https://doi.org/10.46501/IJMTST0707011, WOS Indexed

- **Shairee Ganguly**, Srijeeta Saha, "Fortification of tomato pomace powder in dairy Products", International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 7 **July 2021**, pp: 1789-1797. DOI: 10.35629/5252-030717891797.

- **Shairee Ganguly and Kakali Bandyopadhyay**, **"Effect on rheology and frying stability of edible oil before and after addition of fenugreek seeds"**, Journal of the Indian Chemical Society, ISSN: 194522 98(11): 1-6, November 2021, 100209, impact factor: 0.284, Scopus indexed, web of science indexed, Elsevier science direct, https://doi.org/10.1016/j.jics.2021.100209.

- **Saikat Mazumder, "Active & Intelligent Packaging Technologies: An Aspect of Food Safety Management".** (DOI: http://dx.doi.org/10.31782/IJCRR.2022.14303), International Journal of Current Research and Review (ISSN: 2231-2196 (Print), e-ISSN: 0975-5241), Volume: 14, Issue 03, Pg: 12-18, February 2022. Publons Indexed.

- **Saikat Mazumder, "Food and medicinal properties of hibiscus (Hibiscus sabdariffa; Hibiscusrosasinensis)",** (DOI: https://doi.org/10.7770/safer-V12N1-art2528), Sustainability, Agri, Food and Environmental Research (ISSN: 0719- 3726), Volume: 12, Published Online: Feb 17, 2022. UGC Care-I Journal.

- **Saikat Mazumder, "Pineapple Waste and Its Utilization"** (https://doi.org/10.46501/IJMTST0805039), International Journal for Modern Trends in Science and Technology (ISSN: 2455-3778 online), Volume: 8, Issue 05, Pg: 272-278, 2022. WoS; Thomson Returs Indexed.

- Shairee Ganguly, "A review of Improvement of the fried oil By Treatment with Activated Carbon and Silica, Magnesium Oxide, Activated Clay, and Aluminum Hydroxide Gel", (DOI: https://doi.org/10.37896/aj11.3/003), ADALYA JOURNAL, Volume 11, Issue 3, 2022.

- **Shairee Ganguly, "A STUDY ON DIFFERENT TYPES OF EDIBLE PACKAGING MATERIALS (PLANTSBASED)"** International Journal of Engineering Applied Sciences and Technology, Vol. 6, Issue 7, 2021,ISSN No.2455-2143, Pages 219-226, Index Copernicus indexed.

International Conference

- **Kakali Bandyopadhyay and Shairee Ganguly, Blending of flaxseed oil and palm-olein oil to produce an edible with better nutritional value,** International conference on **"Integrated approaches towards sustainable management of environment for safe food-nutrition and improved health",** organized by Department of Ecological Studies and International Centre for Ecological Engineering & Department of

Food and Nutrition University of Kalyani in collaboration with Kochi University (Japan), Institute of Hydrobiology of the NAS of Ukraine (Ukraine), University Sains Malaysia (Malaysia) and Hanoi University (Vietnam) held on December 15 to 17, 2021

- **Saikat Mazumder, Sustainable/Digital Entrepreneurship: An Accelerating Demand of 21st Century,** ICSSR Sponcored International Conferrence on "Emerging New World Order in Post Pandemic Scenario", Organized by St Xavier's College, Jaipur, Affiliated to University of Rajasthan, Held on 18-19 February 2022.

- **Saikat Mazumder, Consequence of Covid-19 on India's FMCG Sector & Digital Automation,** Eastern Regional Conclave of Students' Chapters of The Institution of Engineers (India) on "Role of Budding Engineers in Smart and Sustainable Technologies ", organized by Institution of Engineers (India), 29-30 October 2021

DEPARTMENT: IT

International Journal

- **Sudeep Ghosh,"A Provably Secure Public-Key Encryption with Keyword Search Scheme for Data Outsourcing in Cloud Environment"**IEEE Systems Journal, SCI Indexed, IF-4.802(Communicated),2022
- **Trishita Ghosh, "Advances in Online Handwritten Recognition in the last decades",** Journal of Computer Science Review, SCI Indexed, Elsevier, IF-7.82 (Communicated),2022

International Conference

- Mandira Banik, **Sudeep Ghosh, Amrut Ranjan Jena, Tridib Cakrabort, Trishita Ghosh, Akash Gupt "APPROXIMATE COMPUTING: ERROR TOLERANT ADDER"** International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSASA 2020). Organized by JIS College of Engineering on 11th& 12th December 2020 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).
- **Sudeep Ghosh,** Mandira Banik, **Tridib Chakraborty, Trishita Ghoh, Chowdhury Md. Mizan, Soumyadipta Basu "Repairing TSVs for 3D ICs using Redundant TSV",** International Conference on Industrial Instrumentation & Control (ici2c-2021) organized by Applied Electronics &

Instrumentation Engineering Department, RCC Institute of Information Technology, Kolkata, From 21st & 22nd August Conference Proceedings will be published in "Lecture Notes in Electrical Engineering" Springer ISSN: 1876-1100 (Scopus Indexed).

- **Tridib Chakraborty, Sudeep Ghosh, Trishita Ghosh, MD Mizan Chowdhury, Dr.Moumita Das,** Suparna Das, Sayani Sengupta, Debayan Roy, Gourav Nandy, Roumita Singha, Pallab Nath, Sriparna Ghosh, **"Image Colorization using Deep Learning"** AICTE Sponsored International Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8 th -9 th July, 2022.
- Katha Roy, Ishan Goswami, Jagyaseni Sengupta, Debashruti Das,**Moumita Das, Sudeep Ghosh ,Tridib Chakraborty , MD Mizan Chowdhury, Suparna Karmakar, Trishita Ghosh "Music Genre Interpretation Study using Machine Learning and Regression Analysis Approach"** AICTE Sponsored International Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9 th July, 2022.
- **Dr.Moumita Das,Tridib Chakraborty, Sudeep Ghosh, Suparna Karmakar,Trishita Ghosh, Mizan Chowdhury,**Raunak Seal, **"New frontiers of Cyber Warfare"** AICTE Sponsored International Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9 th July, 2022.
- **Suparna Karmakar, Trishita Ghosh, Tridib Chakraborty,** Anurati Kar, Sougata Roy, Moumita Basak, **"OCR based approach for Auto-Detection and Recognition of Vehicle Number Plate"** AICTE Sponsored International Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9 th July, 2022.

DEPARTMENT: EE

International Journal

- **Suman Ghosh,** Chandan Kr. Chanda, J. K. Das**, "Voltage Profile Management and Power Loss Minimization in a Real Valued Conventional Grid Connected Microgrid System with the Help of Optimally Placed PMUs**", Journal of The Institution of Engineers (India): Series B, 18th Oct 2021, SCI Indexed.
- **Suman Ghosh,** J. K. Das, Chandan Kr. Chanda, **"Performance Analysis of Latency on Wide Area Monitoring And Control for A Smart Power Grid",** Lecture Notes in Electrical Engineering (LNEE). (Accepted) (Book Chapter).

- **Debasree Saha, "Coordinated AC frequency versus DC voltage control in a PV-wind-battery based hybrid AC/DC microgrid",** International Transactions on Electrical Energy Systems, August, 2021) (Wiley, SCI indexed, Impact factor: 2.86).

- **Debasree Saha, "Pyrolysis: An Evolution of Waste Management",** International Journal of Engineering Research & Technology (IJERT), Vol. 9, no. 11, pp. 98-101, July 2021. (ISSN: 2278-0181), NCETER - 2021 Conference Proceedings, (Scopus, Impact Factor - 7.86).

- **Debasree Saha, "Review on Hybrid Inverter", International Journal of Engineering Research & Technology (IJERT),** Vol. 9, no. 11, pp. 126 -129, July 2021. (ISSN: 2278-0181), NCETER - 2021 Conference Proceedings, (Scopus, Impact Factor - 7.86)

- **Debasree Saha, "Design of A Novel Power Boost Converter With Dual Coupled Inductors",** International Journal of Engineering Research & Technology (IJERT), Vol. 9, no. 11, pp. 94 - 97, July 2021. (ISSN: 2278-0181), NCETER - 2021 Conference Proceedings, (Scopus, Impact Factor - 7.86).

- Shreyash Singha, Sanju Garai, Arijit Ghosh, Niladri Dutta, Sayan Chakrobarty, **Suman Ghosh, "Optimal Placement of PMUs in a Microgrid",** International Journal of Engineering Research & Technology (IJERT), Vol. 9, no. 11, pp. 194 - 196, July 2021. (ISSN: 2278-0181).

- **Amrita Chanda , Sagar Bera, Susovan Dutta, " A Brief Study of Designing A 10KWP GridConnected Photovolatic System using PVSYST",** Lecture Notes on Electrical Engineering (LNEE)-SCOPUS Indexed(Springer-Nature Book Series). (Accepted), March 2022.

- **Pratap Hazra, Raj Kumar Saha, Subhajit Debnath, Debasree Saha, Priyanka Dutta"A DC-DC POWER BOOST PRS CONVERTER",** International Research Journal ofModernization in Engineering Technology and Science, Vol. 4, no. 5, pp. 2234 - 2240, May, 2022. (e-ISSN: 2582-5208), NCETER.

- **Suman Ghosh, Chandan Kr. Chanda, J. K. Das, "Performance analysis of a grid connected microgrid system under fault condition",** Microsystem Technologies, Springer-Verlag GmbH Germany, April 2022, https://doi.org/10.1007/s00542-022-05296-7. (SCI indexed, Impact factor: 1.826).

International Conference

- **Suman Ghosh**, Chandan Kr. Chanda, J. K. Das, **"Reactive power control of a real valued DVC grid connected microgrid system with the help of optimally placed PMUs",** Fourth IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2021), Erode, Tamil Nadu, INDIA, 15-17th September 2021.
- **Rikta Majumder,Dr Debasree Saha, Dr Papun Biswas, Dr Aveek Chattopadhyaya"Modeling, Simulation and FFT Based Dynamic Performance Analysis of Three Phase Asynchronous Machine",**International Conference on Education and Technology (IC-ET-22) 12th June 2022 Kolkata, India.
- **Amrita Chanda , Sagar Bera, Susovan Dutta, "A Brief Study of Designing A 5 KWp Grid Connected Photovoltaic System Using PVSYST"**, IEEE Techithon 2021.
- **Pratap Hazra, Raj Kumar Saha, Subhajit Debnath, Debasree Saha, Priyanka Dutta, "Design Of A DC – DC High Power Boost Converter",** 4th International Conference on Energy, Power, and Environment (ICEPE 2022)", 29 th April 2022 to 1 st May 2022, National Institute of Technology Meghalaya, Shillong.
- **Raj Kumar Saha, Pratap Hazra, Smriti Dutt, Suman Kumari, Poulami Das, Shilpa Dutta, Subhajit Debnath, Aveek Chattopadhyaya, Debasree Saha, "Design of a DC-DC-AC Power Boost Inverter"** , International Conference on Recent Advances in Engineering and Technology (ICRAET) in Siliguri, India during 18 May, 2022.
- **S. Datta, A. Chattopadhyaya, S. Chattopadhyay, A. Das, "Harmonic Distortion, inter-harmonic Group Magnitude and Discrete Wavelet Transform based Statistical Parameter Estimation for Line to Ground Fault Analysis in Microgrid System",** Published in IET Digital Library, DOI: 10.1049/icp.2021.1087, pp. 177 – 184, July2021.
- **Sumangal Bhowmick, Aveek Chattopadhyaya, Jitendra Nath Bera, "Intelligent Assessment of Different Inverters Configuration in Grid Connected DC Microgrid",**International Conference on Industrial Electronics, Mechatronics, Electrical & Mechanical Power, IEMPOWER 2021, Kolkata, India, 26-28 November 2021, pp. 29 (Book of Abstract).
- Amrita Chanda , Sagar Bera, Susovan Dutta, "A Brief Study of Designing A 10 KWp Grid Connected Photovoltaic System Using PVSYST",ICACCES 2022, March

National Conference

- **Debasree Saha, "A high voltage dc railway system",** First Eastern Regional Conclave of Students' Chapters of The Institution of Engineers (India) 2021-2022, 29th-30th Oct., 2021.

- **Sumangal Bhaumik, Aveek Chattopadhyaya, Monishankar Ghosh, Sourav Pal, Sourav Paul, Abhijit Mandal, "PSCAD RTDS based real time study of Symetrical Fault for 50Km Overhade Transmission Line",** First Eastern Regional Conclave of Students' Chapters of the Institution of Engineers (India) 2021-2022, GNIT, Kolkata, 29-30 th October,2021.

DEPARTMENT: AEIE

International Conference

- **Bapita Roy, "Smart Economical Irrigation And Air Pollution Control And Monitoring System For Rural And Industrial Area"** Published in Symposium Institute of Engineers Students National Conclave 2021. 29th-30th Oct., 2021.
- **Ms. Santana Das** "Automatic Coloured Object Sorting Using IoT", Published in National IE Conclave 2021. 29th-30th Oct., 2021.

DEPARTMENT: ASHU

International Journal

- **Anup Kumar Thander & Sucharita Bhattacharyya,** TM Mode Analysis in Optical Waveguide Study, Lect. Notes Electrical Eng. (LNEE), Vol. 776, Springer Nature , Advances in Communication, Devices and Networking, 978-981-16-2910-5, September 2021.
- **Masud Rana, Sourav Majumdar, Pushpdant Jain, Anindya Malas, Rururaja Pradhan, Sandeep Choudhury & Jayanta Kumar Biswas,** Evaluation and Analysis of Strain in the Screw Head for Lumbar Pedicle Screw Fixation: An Experimental and Finite Element Study, International Journal of Multiscale Computational Engineering, Vol. 19, No. 2, pp. 1-8, June 2021, DOI: 10.1615/IntJMultCompEng.2021039052 (SCI Indexed, Impact Factor: 1.508)

- **Anindya Malas, Masud Rana, Pushpdant Jain, Sourav Majumdar, Anupam Alok, Rururaja Pradhan & Jayanta Kumar Biswas,** Effect of Carbon Fiber Reinforced-Polyetheretherketone (CFR-PEEK) Composite Rod for Pedicle Screw-Rod Semi-rigid Fixation: A Finite Element Study, International Journal of Multiscale Computational Engineering, Vol. 19, No. 3, pp. 1-9, August 2021, DOI: 10.1615/IntJMultCompEng.2021039785 (SCI Indexed, Impact Factor: 1.508).

- **Dr. Debasish Batabyal, Mr. Pratim Chatterjee, Namrata Chakabortty,Dr. Shatrajit Goswami, Ms. Vandita Hajra, Revisiting Hotel Brands in West Bengal: An Assessment for Confidence Building of Leisure Tourists amidst COVID 19 Pandemic,** Turkish Online Journal of Qualitative Inquiry (TOJQI),Volume 12, Issue 6, July ,2021, 7480- 7491, (ISSn :1309-6591).

- **Jayanta Kumar Biswas, Anindya Malas, Sourav Majumdar, Masud Rana, A comparative finite element analysis of artificial intervertebral disc replacement and pedicle screw fixation of the lumbar spine,** Computer Methods in Biomechanics and Biomedical Engineering, Feb 2022, DOI: 10.1080/10255842.2022.2039130 (SCI Indexed, Impact Factor: 1.763).

- **Mainak Debnath, Sreyasree Basu, Indrajit Bhattachayya and Oindrila Mazumder, Edible food packages: An approach towards sustainable future,** The Pharma Innovation Journal 2022; SP-11(5): 1704-1710.

DEPARTMENT: CA

International Conference

- Dibyajyoti Mukherjee, Souvik Samnta, Sangram Nandi, Debdip Hazra, **Somalina Chowdhury, Dola Saha,"**A A learning approach for Neural Networks using Deep Learning", published in First Easten Regional conclave of students chapter on 30th oct, 2021.
- Indrani Barui, Sonali Mondal, Pritika Mukherjee, Swagata Mondal, **Somalina Chowdhury, Dola Saha**,"A review on security in Smart Grid", published in First Easten Regional conclave of students chapter on 30th oct, 2021.

2020-21

DEPARTMENT: CSE

International Journal

- **Rupak Chakraborty**, Garima Verma, SuyelNamasudra, "IFODPSO-based multi-level image segmentation scheme aided with Masi entropy", Journal of Ambient Intelligence and Humanized Computing (2020), SCIE (4.54), Springer, DOI: https://doi.org/10.1007/s12652-020-02506-w, Published: 02 September 2020.
- Suyel Namasudra, **Rupak Chakraborty**, Dr. Arun Kumar Sangaigh, "FAST: Fast Accessing Scheme for Data Transmission in Cloud Computing", Peer-to-Peer Networking and Applications (2020) SCIE (2.793), Springer, DOI: https://doi.org/10.1007/s12083-020-00959-6, Published: 28 August 2020.
- SuyelNamasudra, **Rupak Chakraborty**, Abhishek Majumder, Anish Kumar Saha, Nageswara R Moparthi, "Securing Multimedia by Using DNA Based Encryption in the Cloud Computing Environment", ACM-Transactions on Multimedia Computing Communications and Applications, Accepted, SCIE(3.275), ACM. Published: December,2020
- R.Shaw,M. Mishra, & **Amrut Ranjan Jena. (2021, February).** Knowledge Mining in Spreading Pattern of COVID-19 and Its Impact on India Economy. In Journal of Physics: Conference Series (Vol. 1797, No. 1, p. 012013). IOP Publishing.
- S.Pati, S.Mallick, S.Chakraborty, R.Kaur, **Moloy Dhar, & Amrut Ranjan Jena** (2021, February). A Regression Model Frame with IoT to Predict COVID Zone. In Journal of Physics: Conference Series (Vol. 1797, No. 1, p. 012029). IOP Publishing.
- **IpsitaSaha (2021, March).**"Development of Sustainable Business Model: A Conceptual Framework for the Financial Sector to Obtain Successful ERP", In INTERNATIONAL JOURNAL OF SUSTAINABLE DEVELOPMENT AND PLANNING (IJSDP) (Vol. 15, No. 8) Scopus Indexed.

International Conference

- R. Shaw, M. Mishra, **Amrut Ranjan Jena**, "Knowledge Mining in Spreading Pattern of COVID-19 and Its Impact on India Economy" Accepted in (31st July-2020) International Online Conference on Engineering Response to COVID- 19 (IOCER COVID-19) organize by JIS College of Engineering on 8th and 9th October 2020 (Conference proceedings will be published in Journal of Physics: Conference Series indexed in SCOPUS, as well as EI Compendex and Inspec).

- Sonjoy Rana, Shounak Sengupta, Sourav Jana, Rahul Dan, **Mahamuda Sultana** and Diganta Sengupta "Prototype Proposal for Quick Accident Detection and Response System", IEEE Fifth International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN 2020), CHRIST (Deemed to be University), Bangalore, India, November 26-27, 2020 (In Press).

- **Dr. Suman Bhattacharya, Dr. Mahamuda Sultana**, "Deep CNN Based automatic detection and identification of Bengal Tigers", 3rd International Conference on Computational Intelligence in Communications and Business Analytics, Springer, 7-8 Jan,2021(In Press).

- Sudeep Ghosh, **Mandira Banik**, Moumita Das, Tridib Chakraborty, Chowdhury Md. Mizan, Arkajyoti Chakraborty, "Clustered Fault Repairing Architecture for 3D ICs using Redundant TSV" First International Conference on Innovations in Software Architecture and Computational Systems (ISACS 2021),02-03 April, 2021.(Proceedings will be published through the Springer Lecture note series "Network and System", Scopus Index)

- **Mandira Banik**, Sudeep Ghosh, **Amrut Ranjan Jena**, TridibCakraborty, Trishita Ghosh, Akash Gupta "APPROXIMATE COMPUTING: ERROR TOLERANT ADDER" International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSASA 2020). Organized by JIS College of Engineering on 11 th& 12 th December 2020 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Rupak Chakraborty, Sourish Mitra, Rafiqul Islam, Nirupam Saha, BidyutmalaSaha** "An Improved Diferential Evolution Scheme for Multilevel Image Thresholding Aided with Fuzzy Entropy", International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April,

2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Rupak Chakraborty,** "Breast Cancer Histopathological Image Classification using Convolutional Neural Networks", International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Rupak Chakraborty,**"An Improved K-Means Algorithm for Effective Medical Image Segmentation", International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Sayani Chandra, Sangeeta Bhattacharya,**"Suicide Ideation Detection in Online Social Networks: A Comparative Review",International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Amrut Ranjan Jena, Santanu Kumar Sen,** "A Framework for Predicting Placement of a Graduate using Machine Learning Techniques",International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Suman Bhattacharya**,**Mahamuda Sultana,**" An Approach of Safe Stock Prediction using Genetic Algorithm",International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Moloy Dhar, Amrut Ranjan Jena,** "A regression model frame with IoT to predict covid zone", IOCER COVID-19.

- **Moloy Dhar**, "Profanity Detection in Social Media Text Using Hybrid Approach of NLP & Deep Learning Techniques", FEMAS-2021.
- **IpsitaSaha,** "Circular Economy Implementation in SMEs in India", 10th International Conference on Sustainable Waste Management towards Circular Economy.

DEPARTMENT: ECE

International Journal

- **Dr. Surajit Basak, "**On Energy Efficient Secure Routing in Multi-hop Underlay D2D Communications for IoT Applications", Ad Hoc Networks (Elsevier), vol. 128, pp 102275-102283, 1st Nov., 2020. Impact Factor: 3.643. DOI: **https://doi.org/10.1016/j.adhoc.2020.102275**. (SCI).

- **Dr. Soumik Podder,** "Green biosynthesis of silver nanoparticles using Dregea volubilis flowers: Characterization and evaluation of antioxidant, antidiabetic and antibacterial activity", Inorganic and Nano-metal Chemistry (Taylor& Francis), **doi.org/10.1080/24701556.2020.1814331,** 2020 (published), Impact Factor: 0.839 (SCIE, SCOPUS).

- **Avali Ghosh, Sisir K. Das and Annapurna Das,** "Analysis of Crosstalk in High Speed and High Frequency Printed Circuit Board", International Journal of Electronics on 19th January 2021 (SCI). **DOI: http://dx.doi.org/10.1080/00207217.2020.1870729.**

- **Suparna Biswas,** Sayan Roy Chowdhuri, Palasri Dhar, Suparna Karmakar, "RECENT ADVANCES OF FACE RECOGNITION IN TRANSFORM DOMAIN",JCR. August, Year: 2020, Volume: 7, Issue: 19: 6385-6393. DOI: 10.31838/jcr.07.19.735 (SCOPUS INDEXED).

- **Suparna Biswas, Sayan Roy Chaudhuri, Palasri Dhar, Dyuti Nandi,Sulata Pandit,** "Designing of Automatic Car Parking System", International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653 ,VOL: 8,NOV 2020.(Google Scholar and UGC Approved).

- **S.Roy,** "Efficient Rom Temperature Hydrogen Gas Sensor using ZnO Nanoparticles reduced Graphene Oxide Nanohybrid" IEEE Sensors Journal. Impact Factor: 3.8, Volume 21, Issue 2, Jan 2021 10.1109/JSEN.2020.3020755

- **S.Roy**, "Performance Improvement of n-ZnO/p-rGO Heterojunction based Room temperature Hydrogen Sensor" IEEE Sensors Letters. Impact Factor: 3.8, Volume 5, Issue 5, April 2021,10.1109/LSENS.2021.3072424.

- **Kaushik Roy, Srijoni Malakar, Soumik Podder and Koushik Pal, "Particular amino acid detection of by Henna leaf extract mediated copper nanoparticles.**"Research Journal of Pharmaceutical, Biological and Chemical Sciences, 12(3) 2021, pp. 87-93, Impact Factor: 0.35 (SCOPUS).

- **Suparna Biswas**, Wriju Banerjee, Sanchari Saha, Saswata Sundar Maity, Tathagata Bhattacharyya and Subhrajyoti Sadhu, **"GPS Tracking, QR code Scanner Based Application to Help the Health Workers and Common Citizens during Covid-19"**, 012026, February 2021, Volume 1797, No. 1, Journal of Physics Conf. Ser., https://doi.org/10.1088/1742-6596/1797/1/012026 (**SCOPUS INDEXED,IF=0.59**)

- **Suparna Biswas**, Senjuti Mazumdar, Sangeeta Rana, S.B. Amreen Saba, **Palasri Dhar and Sayan Roy Chaudhuri**, "**Face Detection based approach to combat with COVID-19"**, 012031, February 2021, Volume 1797,No. 1, **Journal of Physics Conf. Ser.**, https://doi.org/10.1088/1742-6596/1797/1/012031, (**SCOPUS INDEXED,IF=0.59**)

- **Suparna Biswas**, Shatadru Biswas, Bidushi Saha, **"Improvement of Offline Signature Verification Method using Discrete Wavelet Transfor**m", Journal of The Institution of Engineers (India): Series B, 17th May 2021, https://doi.org/10.1007/s40031-021-00603-8, (**SCOPUS INDEXED,IF=0.88**)

- Ayushi Bhawal, Debaparna Dasgupta, Arka Ghosh, Koyena Mitra and **Surajit Basak**, "**Arduino Based Hand Gesture Control of Computer**" International Journal of Engineering Science and Computing (IJESC), vol. 10, no. 6, 15th June 2020

- **Surajit Basak**, Jayita Pramanik, Poushali Paul, Sneha Baidya and Tias Ghosh, "**Controlling Railway Gates Using Automata Based Intelligent Controller**", International Journal of Innovative Research in Technology (IJIRT), vol. 7, Issue 11, pp. 513- 518, 11th April 2021. ISSN: 2349-6002

- **Anurima Majumdar,Antara Ghosal,Sisir Kumar Das,Annapurna Das "Analysis of Coaxial Probe Fed Circular Patch Antenna (CPA) using Green's Function and Effect of Slots on CPA**" fourth

Annual Technical Volume of Electronics and Telecommunication Engineering Division Board on the theme "Communication Networking using Intelligent Sensor Technology".

- **Antara Ghosal,Anurima Majumdar**,**Sisir Kumar Das,Annapurna Das "Analysis of Input impedance Characteristics of Rectangular Patch Antenna Using green's Function"** fourth Annual Technical Volume of Electronics and Telecommunication Engineering Division Board on the theme "Communication Networking using Intelligent Sensor Technology".

- **Anurima Majumdar**,Romik Halder, Saumyadeep Bhattacharyya ,Arpan Mondal, Asmita Chakraborty ,Ankita Roy, Rohit Dubey,Development of an Ultimate People Helping Set-up with Android Application and Cargo Drone',Solid State Technology,March 2021.

- **"Performance Analysis of Narrowband MIMO Channel in Ad Hoc Network" Soma Boral, Arun Kumar Mondal** in INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS - IJCRT| Vol. 9, Issue 6, JUNE 2021 |ISSN: 2320-2882| Impact Factor: 7.97.

- **AI Based Surrounding Detection Goggles for Visually Impaired Person" Soma Boral, Arun Kumar Mondal** in International Journal for Research in Applied Science and Engineering Technology (IJRASET)| Vol. 9, Issue 6, JUNE 2021 |ISSN: 2321-9653| Impact Factor: 7.429.

- **Avali Banerjee et. al. "Drone: The Solution to Delivery Problems",** International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 9 Issue V May 2021. ISSN: 2321-9653. DOI: 10.22214/ijraset.2021.34696.

- **Avali Banerjee et. al. "Comparative Analysis on Stroke Prediction using various Supervised Machine Learning Techniques",** International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 9 Issue V May 2021. ISSN: 2321-9653. DOI: 10.22214/ijraset.2021.34416.

International Conference

- **Kaushik Roy,** S. Malakar and Sayan Roy Chaudhuri, "Selective detection of amino acid by Lawsoniainermis leaf extract-mediated copper nanoparticles", 9th International Conference on Computing, Communication and Sensor Network (Online mode), Kolkata, 17-18thOctober, 2020.

- **Sunipa Roy**, "Study of Graphene Field Effect Transistor (GFET) for Chemical Sensing Application". Proc. of IOCER 2020 Conference, 8-9th October 2020, JISCE Kalyani.

- **Sunipa Roy**, "Optimization of low frequency noise for dielectric modulated TFET for bio sensing applications". Proc.of IOCER 2020 Conference, 8-9th October 2020, JISCE Kalyani.

- **Sunipa Roy**, "Development of Highly Sensitive RoomTemperature Gas Sensor using rGO-ZnONanohybrid"Nano Virtual 2020" London, United Kingdom, November 25- 26, 2020.

- **Suparna Biswas, Palasri Dhar, Sayan Roy Chowdhuri**, "Face Detection based approach to combat with COVID-19",Proc. of IOCER 2020 Conference, 8-9th October 2020, JISCE Kalyani.

- **Suparna Biswas**, "GPS Tracking, QR code Scanner Based Application to Help the Health Workers and Common Citizens during Covid-19",Proc. of IOCER 2020 Conference, 8-9th October 2020, JISCE Kalyani.

- Kaushiki Bhattacharya, Mrinmay Hazra, Debarghya Dutta and **Kaushik Roy**, "Smart Dustbin Utility System using IoT", FEMAS 2.0 (Online mode), Kolkata, 28-29th January, 2021.

- **Swagata Bhattacharya**, Somsubhra Talapatra, Dr. Debotosh Bhattacharjee, Dr. Amlan Chakrabarti " A Scalable VLSI Architecture For llumination-Invariant and Heterogeneous Face Recognition", Proc. of ICEEE 2021Conference"Springer Book of Innovations in Electrical and Electrical Engineering", (Scopus/WoS Indexed) Springer Singapore, 2-3 January,,2021

- **Suparna Biswas**, Rohan Kumar Banerjee, Ankita Sarkar, **Palasri Dhar, Avali Banerjee, Sayan Roy Chaudhuri**, "Real-Time Object Detection using YOLO Algorithm", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2021),Guru Nanak Institute of Technology, Kolkata, January 28-29, 2021.

- **Suparna Biswas**, Ayusha Biswas,Arpan Bhawal, **Sayan Roy Chaudhuri**, "AIR CONDITIONER SYSTEM CONTROL USING FUZZY LOGIC", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2021),Guru Nanak Institute of Technology, Kolkata, January 28-29, 2021.

- **Antara Ghosal, Anurima Majumdar, Sisir Kumar Das, Annapurna Das**, "A Wine Glass Shaped MSPA For Wireless Communication Applications", International Conference on Frontiers in

Engineering, Management and Applied Science (FEMAS 2021),Guru Nanak Institute of Technology, Kolkata, January 28-29, 2021.

- **Koushik Pal**, Mahuya Maity, Anjali Kumari, Debanjana Das, Debarati Roy, Madhurima Mallick, Plaban Mal,"Rfid Based Device Control And Authentication Using Pic Controller", in International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2021),Guru Nanak Institute of Technology, Kolkata, January 28-29, 2021

- **Koushik Pal**, Anjali Kumari,Debanjana Das, Debarati Roy, Mahuya Maity, Madhurima Mallick, Plaban Mal, " DTMF Based Load Control System in PRAYAS-2020, MCKV Institute of Engineering, December 20th 2020

- Piyal Bose, Arko Saha, Aritra Ghosal, Arjyama Seal, Bikram Paul and **Surajit Basak**, "COVID FRONTLINER: A First Level Smart Health Assistant App & Website for Covid 19", 28-29th Jan., 2021, FEMAS 2.0-2021

- **Avali Banerjee**, Sanchari Saha, Wriju Banerjee, Tathagata Bhattacharyya, Saswata Sundar Maity, " Facial and Voice Recognition Based Security and Safety System in Car", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020. Electronic ISBN: 978-1-7281-7016-9 DOI: 10.1109/ICRITO48877.2020.9197886

- **Avali Banerjee**, Sangeeta Rana, S. B. Amreen Saba, Samayita Chakraborty, "Bionic Eye-A Review", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020. Electronic ISBN: 978-1-7281-7016-9 DOI: 10.1109/ICRITO48877.2020.9197834

- Ahmed Reza, Chandrima Banerjee, **Soma Boral, Arun Kumar Mondal**, "*Smart Battery System for Home and Office*", International Congress on Renewable Energy (ICORE-2020), Guru Nanak Institute of Technology, Kolkata, 7th - 8th February, 2020. ISBN: 978-93-5396-201-2

- Vivek Kumar Jha, Debajyoti Debbarma, Swapnil Anand, **Surajit Basak and Soma Boral,** "*SAHAR: Spectrum-Aware Hybrid Adaptive Routing for Cognitive Radio Based Disaster Response Networks*", International Congress on Renewable Energy (ICORE-2020), Guru Nanak Institute of Technology, Kolkata, 7th - 8th February, 2020. ISBN: 978-93-5396-201-2

- Nishan Dutta, Somnath Bhattacharya, **Ramkrishna Mondal,Soma Boral, Surajit Basak,** "*Arduino Based Automatic Floor Cleaner with Moisture Sensor*", International Congress on Renewable Energy (ICORE-2020), Guru Nanak Institute of Technology, Kolkata, 7th - 8th February, 2020.

- Chandrima Banerjee, Ahmed Reza, **Soma Boral, Arun Kumar Mondal**, " AI BASED SURROUNDING DETECTION GOGGLES", *2nd International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS-2021)* organized by GNIT, Sodepur, Kolkata, India from 28-29 January 2021.

- Debasis Saha,**Soma Boral, Ramkrishna Mondal,Arun Kumar Mondal**,"Automatic Compact Sanitization And Cleaning Machine" , SAMATVA 2020 ,Guru Nanak Institute of Technology, Kolkata, 16th - 18th October, 2020

DEPARTMENT: FT

International Journal

- **Saikat Mazumder, Kakali Bandhyopadyay,** "Organizing The Unorganized: An Overview of COVID-19 Impact On FMCG Sector and Indian Economy",International Journal of Application or Innovation in Engineering & Management (IJAIEM), DOI:10.26484 , ISSN:2319-4847, Volume: 9, Issue: 7, Pg: 62-69, July, 2020. Thompson Reuters Researcher ID: N-6095-2015, Scopus indexed .

- **Dr. Kakali Bandyopadhyay,** "A Review on Utilization of Biosensors for Detection of Adulteration in Fish"International Journal for Modern Trends in Science and Technology (IJMTST), Web of Science ResearcherID AAJ-4390-2020, Impact Factor-4.124 *UGCGazette Régulations(Journal Id: 43137)*ISSN: 2455-3778,6(10):50-55, 2020.

- **Dr. Kakali Bandyopadhyay,** "Study On The Fortification Techniques Of Multiple Food Products Using Immunity Boosting Micronutrients And Antioxidants: A Literature Review" , International Journal of Engineering Applied Sciences and Technology, 5(6):163-169, ISSN No. 2455-2143, 2020, Impact Factor: 4.982, DOI: 10.33564, H-index: 6

- **Saikat Mazumder,** Amit Barman "Onion Productivity and PriceChange Aspects in India: An Overview",International Journal for Modern Trends in Science and Technology (IJMTST)Web ofScience

Researcher ID AAJ-4390-2020. Impact Factor- 4.124.UGC Gazette Régulations (Journal Id: 43137) ISSN: 2455-3778,6(10):118-122, 2020.

- **Dolanchapa Sikdar,** "Activated carbonaceous materials from tea waste and its removal capacity of indigo carmine present in solution: synthesis, batch and optimization study", In Journal of Sustainable Environment Research (https://doi.org/10.1186/s42834-020-00070-8) **Scopus indexed, ISSN: 2468-2039,** BioMedCentral (BMC).

- **Saikat Mazumder**"Overview of worldwide potato production scenario with special focus in India and its industrial utilization", International Journal for Modern Trends in Science and Technology (IJMTST). International Journal for Modern Trends in Science and Technology (IJMTST) Web of Science Researcher ID AAJ-4390-2020. Impact Factor- 4.125. *UGC Gazette Régulations (Journal Id: 43137)*ISSN: 2455-3778,

- **Shairee Ganguly and Dolanchapa Sikdar,** "A review on Anthocyanin Pigment with Respect to It's Nutraceutical Properties", International Journal for Modern Trends in Science and Technology (IJMTST). International Journal for Modern Trends in Science and Technology (IJMTST) Web of Science Researcher ID AAJ-4390-2020. Impact Factor- 4.125. *UGC Gazette Régulations (Journal Id: 43137)*ISSN: 2455-3778, Volume 6, Issue 12, December 2020.

- **Dolanchapa Sikdar, "Entomophagy: A Future Feed Security System",** International Journal for Modern Trends in Science and Technology (IJMTST).). International Journal for Modern Trends in Science and Technology (IJMTST) Web of Science Researcher ID AAJ-4390-2020. **Impact Factor-4.125.** *UGC Gazette Régulations (Journal Id: 43137)* ISSN: 2455-3778, Volume 6, Issue 12, December 2020.

- **Shairee Ganguly, Dolanchapa Sikdar, Kakali Bandyopadhyay,** A Review on Cocoa Butter Alternatives in Chocolate Preparation, ***International Journal for Modern Trends in Science and Technology***, impact factor: 4.175, DOI: https://doi.org/10.46501/IJMTST070130, Web of Science ResearcherID AAJ-4390-2020,UGC Journal ID: 43137, ISSN: 2455-3778, 7(01): 135-140, January, 2021.

- **Dolanchapa Sikdar**, "Synthesis of activated carbon material using Sawdust as precursor and its application for dye removal: Batch study and optimization using Response Surface Methodology", *Biomass Conversion and Biorefinery*, 2021 https://doi.org/10.1007/s13399-021-01385-1. **Scopus indexed,** ISSN: 2190-6823.

- **Kakali Bandyopadhyay**, Microbial Spoilage of Meat and It's Detection - A Review, *International Journal of Modern Science and Technology*, www.ijmst.co. ISSN: 2456-0235, 6(2-3):23-30. February, 2021.

- **Kakali Bandyopadhyay**, Detection Methods of Non-permitted Food Color, Metanil Yellow: A Review, ***International Journal for Modern Trends in Science and Technology***, impact factor: 4.175,DOI:https://doi.org/10.46501/IJMTST0703033,http://www.ijmtst.com/vol7issue03.htm, Web of Science ResearcherID AAJ-4390-2020,UGC Journal ID: 43137, ISSN: 2455-3778, 7(03): 201-204, March, 2021.

- **Kakali Bandyopadhyay, Shiladitya Ghosh,** Application Of Artificial Intelligence In Food Industry - A Review, Vol. 5, Issue 11, ISSN No. 2455-2143, Pages 145-152, 2021, IJEAST (http://www.ijeast.com), March 2021.

- **Monika Paul, Kakali Bandyopadhyay**, Detection and Estimation of Metanil Yellow & Congo Red: Carcinogenic Food Colourants, Present in Different Food Samples, ***International Journal for Modern Trends in Science and Technology***, ISSN: 2455-3778 online, DOI:https://doi.org/10.46501/IJMTST0705007, Available online at:http://www.ijmtst.com/vol7issue05.html, impact factor: 4.175, 7(05): 49-55, May, 2021.

- **Saikat Mazumder**, "An Overview of Various Types of Banana Production And Its Market Value In India", International Research Journal of Engineering and Technology (e-ISSN: 2395- 0056, p-ISSN: 2395-0072) Volume: 07, Issue: 12, Pg: 1195-1204, Available online DOI: https://irjet.net/volume7-issue12, December 2020, Thompson Reuters indexed.

- **Saikat Mazumder**, "An Overview of Rice Productive Cultivation and Variety in India" International Research Journal of Engineering and Technology (e-ISSN: 2395- 0056, p-ISSN: 2395-0072) Volume: 07, Issue: 12, Pg: 1195-1204, Available online DOI: https://irjet.net/volume7-issue12, December 2020, Thompson Reuters indexed.

- **Saikat Mazumder,** "Betel Leaf: The Ignored Green Gold", ADALYA JOURNAL (ISSN NO: 1301-2746), Web of Science group journal, Volume: 10, Issue: 4 Pg: 1-19, 2021, available online: DOI: https://doi.org/10.37896/aj10.4/001, April 2021

DEPARTMENT: EE

International Journal

- **Shyamal Kumar Roy, Suman Ghosh**, "Modeling of Plasma Etching Reactors based on Numerical Study", International Journal of Engineering Research and Applications (IJERA), UGC Approved Journal, ISSN: 2248-9622, Vol. 10 - No. 10 (Oct. 2020), DOI: 10.9790/9622-1010020105 (Published).

- **Rikta Majumder**, "DTMF Based Home Appliance Control" Arabian Journal for Science and Engineering.ID: AJSE-D-20-05452, SCI indexed, (Communicated)-Oct 2020.

- **Debasree Saha**, Dipu Sarkar, Sagar Kudkelwar, "Evaporation rate based water cycle algorithm for directional over current relay coordination", Electrical component and system, Taylor and Francis, Revision submitted.,October,2020

- S. Datta, A. Chattopadhyaya, A. Duary, S. Chattopadhyay, A. Das, " Remote End Load Bus Fault Diagnosis in IEEE Standard 14 Bus Microgrid System Using S-Transform Based Skewness Extraction", Sustainable Energy, Grids and Networks.

- **Barnali Kundu, "Cloud based Real-time Vibration and Temperature Monitoring System for Wind Turbine"**, AI and IOT in renewable energy, Publisher: Springer Nature, Singapore Series: Studies in Infrastructure and Control, 7th January, 2021. (Book Chapter) published by Springer Nature. https://www.springer.com/gp/book/9789811610103

- **Shyamal Kumar Roy, Suman Ghosh, Madhumita Chakraborty, "Static Series Compensator and Static Transfer Switch for Voltage Dip Mitigation with Short Interruptions",** International Journal of Enhanced Research in Science, Technology & Engineering ISSN: 2319-7463, Vol. 10 Issue 6, June-2021(UGC Indexed)

- Swapnadip Datta, Tuhin Sarkar, Pritam Maity, Swapnil Dutta Gupta, Uday Sankar Debbarma, **Suman Ghosh, Shyamal Kumar Roy,** "Low Cost Android Based Electrical Appliance Control", International

Journal of Enhanced Research in Science, Technology & Engineering ISSN: 2319-7463, Vol. 10 Issue 6, June-2021(UGC Indexed)

- **Shyamal Kumar Roy, Suman Ghosh, Barnali Kundu, "Neural Protective Relay for a Circuit Breaker"**,International Journal of Enhanced Research in Science, Technology & Engineering ISSN: 2319-7463, Vol. 10 Issue 6, June-2021(UGC Indexed).

- **Barnali Kundu**, Raunak Seal, Neha Gupta, **"Cyber Vulnerabilities in Smart Grid: A Review",** International Journal of Engineering Research & Technology (IJERT), vol. 9, no. 11, pp. 51-55, June, 2021 (ISSN: 2278-0181)

- Subhajit Dutta, Achinta Das, Ayan Nandi **Barnali Kundu "AFFRO-BOT Autonomous Forest Fend Robot",** International Journal of Engineering Research & Technology (IJERT), vol. 9, no. 11, pp. 169-174, June, 2021(ISSN: 2278-0181)

International Conference

- **S. Datta, A. Chattopadhyaya,** S. Chattopadhyay, A. Das, " Harmonic Distortion, inter-harmonic Group Magnitude and Discrete Wavelet Transform based Statistical Parameter Estimation for Line to Ground Fault Analysis in Microgrid System", *MFIIS-2020*, Kolkata, 3-4 October, 2020.

- **Barnali Kundu,** Arghya Sarkar "Distributed Generators Curtailment for Congestion Mitigation" 7th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2020), 27th - 29th November 2020, Department of Electrical Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India.

- **Barnali Kundu**, "Cloud-based Real-time Vibration and Temperature Monitoring System for Induction Motor, 3rd International Conference on Computational Advancement in Communication Circuit and System (ICCACCS 2020), Narula Institute of Technology, Kolkata 17th -19th December, 2020.

- **Suman Ghosh,** Avinash Shaw**, Aveek Chattopadhyaya, Barnali Kundu,** Chandan Kr. Chanda, J. K. Das , "FFT and PMU Based Fault Analysis in Double Circuit Transmission Line", International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021), JCT College of Engineering and Technology, Coimbatore, India, 25-27th March 2021. (IEEE Conference)

DEPARTMENT: IT

International Journal

- **Tridib Chakraborty, Sudeep Ghosh, Trishita Ghosh, Chowdhury Md. Mizan, Suparna Karmakar** "(3, 3) Visual Cryptography for Online Certificate Authentication", International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-6, August 2020 Scopus Index.

- Suparna Biswas, Sayan Roy Chowdhuri, Palasri Dhar**, Suparna Karmakar**"RECENT ADVANCES OF FACE RECOGNITION IN TRANSFORM DOMAIN", Journal of Critical Review. Year: 2020, Volume: 7, Issue: 19: 6385-6393. DOI: 10.31838/jcr.07.19.735.(Scopus).

- **Sudeep Ghosh,** Mandira Banik,**Tridib Chakraborty, Trishita Ghosh, Chowdhury Md. Mizan, Suparna Karmakar,** "Repairing of Faulty TSVs Using Redundant TSVs" International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-10 Issue-7, September 2020 Scopus Index.

International Conference

- Mandira Banik, **Sudeep Ghosh**, Amrut Ranjan Jena, **Tridib Cakrabort, Trishita Ghosh**, Akash Gupt "APPROXIMATECOMPUTING: ERROR TOLERANT ADDER" International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSASA 2020). Organized by JIS College of Engineering on 11th& 12th December 2020 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- Sumit Choudhary, Subhra Sarkar, **Trishita Ghosh,Tridib Chakraborty, Sudeep Ghoosh, Suparna karmakar**"A Low-Latency Scheme Using Real-time Constraints for V2V Communication in VANET"International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSASA 2020). Organized by JIS College of Engineering on 11th& 12th December 2020 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial computing", Scopus Index).

- Shamma Shabnam Nasim, **Chowdhury Md. Mizan, Tridib Chakroborty, Sudeep Ghosh, Suparna Karmakar** , "A Survey of Load balanced Job scheduling scheme in cloud computing" in FICR International conference on Rising Threats in Expert Applications & Solutions, has been published in Advances in Intelligent Systems and Computing, October, 2020, ISBN/ISSN number 978-981-15-6013-2.

- **Sudeep Ghosh, Mandira Banik,Moumita Das, Tridib Chakraborty, Chowdhury Md. Mizan,** Arkajyoti Chakraborty, "Clustered Fault Repairing Architecture for 3D ICs Using Redundant TSV", First International Conference on Innovations in Software Architecture and Computational Systems (ISACS-2021) organized by Department of Computer Science & Engineering, Guru Nanak Institute of Technology, JIS Group, from 2nd -3rd April, 2021, Conference Proceedings will be published in Springer Lecture Notes in Networks and Systems.

DEPARTMENT: AEIE

International Journal

- Shilpita Hazra, **Bapita Roy**, **Paramita Banerjee**, Sayani Dey, Sonali Das, "Non-Contact Estimation of Surface Roughness", Pramana Research Journal, UGC approved Journal, Volume 10, Issue 8, 2020, pp - 48-55. ISSN NO: 2249-2976, August-2020.

- **Paramita Banerjee**, Ratna Ghosh and Bhaswati Goswami "Inferring material parameters of a single mode piezo element from a derived electrical series model", Journal of The Institution of Engineers (India): Series B, Springer publishers. Scopus Indexed, H Index -8, Impact factor: 0.52. (Accepted for publication)Dec-2020.

- **Paramita Banerjee**, Ratna Ghosh and Bhaswati Goswami "Predictability of nominal dental implant resonances", Advances in Biorsearch, Additional WOS Indexes (Zoological Records) SOC EDUC publishers. Scopus Indexed, H Index -11, Impact factor: 0.36. (Accepted for publication)Dec-2020.

- Automated Hand Sanitizer Dispenser by **Paramita Banerjee, Bapita Roy**, Soumyajit Dutta, Nabanita Sardar, Argha Majumder, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 8, Issue 12, December-2020, pp: 296-299

International Conference

- Quartz crystal microbalance sensors in various engineering fields: a review by **Paramita Banerjee, Sunipa Roy**, Sumedha Bhattacharya, International Conference on Frontiers in Engineering, Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.
- Design of Automatic power consuming street light controller by **Nabamita Paul, Saswati Chatterjee, Mrinmoy Dutta, Bapita Roy,** Argha Majumder, International Conference on Frontiers in Engineering, Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.
- Solar based portable mobile power bank system by **Mrinmoy Dutta, Saswati Chatterjee, Nabamita Paul, Santana Das,** Chandrika Bhattacharyya, International Conference on Frontiers in Engineering, Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.
- IoT based colour sorting machine by **Suparna Maity**, Sudipta Dey, Debdipta Bhunia, Rohan Dutta,Asif Nadeem, Anisha Chowdhury, International Conference on Frontiers in Engineering, Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.

DEPARTMENT: ASH

International Journal

- **Dr. Indrajit Bose,** "Sunlinght on the Water: Arthur Ransome's Book Illustrations", SETU Journal, Pittsburgh, U.S.A., July-2020.

- **Dr. Sucharita Bhattacharyya & Dr. Anup Kumar Thander** , "Conventional Education & Online Education in Engineering: A Case Study" published in Journal of Physics (Conference Series) " (IOCER 2020), 1797(2021)012069 , doi:10.1088/1742-6596/1797/1/012069, IOP Publishing Ltd. UK, March 2021. Scopus Indexed, Impact Factor 0.55, ISSN : 17426588,March 2021.

- **Dr. Anup Kumar Thander & Dr.Sucharita Bhattacharyya,** "TM mode analysis in rib structured optical Wave-Guide" is accepted (from ICCDN 2020) and to be published in Springer as LNEE database with Scopus indexing.

- **Dr. Mainak Debnath, Dr. Indrajit Bhattacharyya, Dr. Sreyasree Basu and Mr. Chandan Kumar Bhattacharyya,** :Food colour: Boon or Ban", The Pharma Innovation Journal 2020; SP-9(12): 86-92

- **Dr. Soma Mukherjee** "Communicated to Acta Biomaterialia (Elsevier)".

International Conference

- **Dr. Soma Mukherjee** in "International Web Conference on Recent Advances in Nanoscience & Nanotechnology for High-end Applications (IWCRANHA 2020)" from 25.7.20 to 26.7.20 held in ASHU,Assam University, Silchar in association with The society for Technologically Advanced Materials of India (STAMI).

- **Dr. Soma Mukherjee** :"Renewable Energy:Physics involved & its prospect" in International Conference on Environment and sustainable development (ICESD-2021) from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT

- **Dr. Soma Mukherjee** :"Application of Physics for health care" in International Conference on Environment and sustainable development (ICESD-2021) from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT

- **Dr. Soma Mukherjee:** "Physics in Medical World" in International Conference on Environment and sustainable development (ICESD-2021)from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT

- **Dr. Soma Mukherjee:**"Materials for sustainable development" in International Conference on Environment and sustainable development (ICESD-2021) from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT

- **Dr. Sucharita Bhattacharyya** in "IOCER, 2020" from 8.10.2020 to 9.10.2020.

National Conference

- **Dr. Soma Mukherjee** in "3rd National Conference on Science, Technology and Communication Skills (NCSTCS 2K20)"from 25.09.2020 to 26.09.20 held in Dept.of Basic Science & Humanities, Narula

Institute of Technology.Published in Proceedings of the conference by Ideal International E- publication Pvt. Ltd, ISBN: 978-93-89817-42-3, page 77

- **Sourav Majumdar** in STTP on Recent Trends in "Internet of Things (IoT) and Embedded System Based Monitoring and Control of Distributed Generation" (Phase-II) from 24-08-2020 to 29-08-2020 hrld in Dept. of EE, Narula Institute of Technology.

DEPARTMENT: CA

International Journal

- Somalina Chowdhury, Santanu Kr. Sen," Smart Meter using Big Data in IoT", Impact factor 1.0, published in international Journal of Engineering and Advanced Technology (IJEAT) at Volume-10 Issue-1 value of citation 6.02[Scopus Indexed].
- Somalina Chowdhury, Santanu Kr. Sen,"Cloud computing in IoT based on Smart Meter", Impact factor 1.0, published in international Journal of Engineering and Advanced Technology (IJEAT) at Volume-10 Issue-1 value of citation 6.02 [Scopus Indexed].

2019-20

DEPARTMENT: ECE

National Conference

- **SuparnaBiswas ,Sayan Roy Chaudhuri, Arindam De, Achyut Pal, AnkitaSwarnakar, HridikaSaha,** "Smart Irrigation System With Sun Tracking Solar Panel",11th Inter University Engineering, Science & Technology Academic Meet 2020 & Innovative Model Competition For A Sustainable Society, Forum Of Scientists, Engineers & Technologists **(FOSET)**,15th March, 2020.

International Journal

- **Ayushi Bhawal, Debaparna Dasgupta, Arka Ghosh, Koyena Mitra and Surajit Basak,** "Arduino Based Hand Gesture Control of Computer" International Journal of Engineering Science and Computing (IJESC), vol. 10, no. 6, pp. 22288-22290, 15th June 2020.

- **Anurima Majumder**, **S.K.Das, A.Das**, "A CPW fed modified ring patch antenna with DGS for multi-frequency and wide band wireless communications", Accepted in International Journal , International Journal of Modern Engineering and Research Technology,UGC approved, IF 0.9,3rd October 2019.

- **Anurima Majumder, S.K.Das, A.Das**,"Ultra wideband CPW fed patch antenna with fravtal elements and DGS for wireless application", Progress in electromagnetic research (PIER C), September, 2019 Vol 94 , pp 131-144, IF 2.9, SCOPUS Indexed.

- **Antara Ghosal, S.K.Das, A.Das, "**Multifrequency Rectangular Microstrip Antenna with array of L-slots", AEU- International Journal of Electronics & Communications, November, 2019, Volume 111, IF 2.853, SCOPUS Indexed.

- **Kaushik Roy et al.,** "Anticoagulant, Thrombolytic and Antibacterial Activities of *Euphorbia acruensis* Latex-mediated Bioengineered Silver Nanoparticles", Green Processing and Synthesis, Volume:8, Page: 590-599, July 2019 (SCI Impact Factor-1.21).

- **Kaushik Roy et al., "**Semiconducting Behaviour of Metal Thin Film composed of Green Synthesized Silver Nanoparticles", *IEEE Xplore* Digital library, 10.1109/ DEVIC.2019.8783229, August 2019.

- **Anurima Majumdar, Antara Ghosal,** "IOT Based Auto-Irrigation System for Agriculture", published in International Journal of Emerging Science and Engineering (IJESE) ", July 2019.

- **Surajit Basak,"**On BER Minimizing Routing and Power Allocation in Multi-Hop Cognitive Radio Ad-Hoc Networks", International Journal of Engineering Science and Computing (IJESC)", Vol-9, issue-5,July 2019.

- **Avali Banerjee, "**Stability and Control of Quadcopter ", International Journal for Scientific Research and Development", July 2019, Google Scholar, IF 4.396.

- **Avali Banerjee,** "Integrated Multifunctional Security System", International Journal for Scientific Research and Development, July 2019, Google Scholar, IF 4.396.

- **Anurima Majumdar, Antara Ghosal, "**IoT Based Auto-Irrigation System for Agriculture", International Journal of Emerging Science and Engineering (IJESE), Vol-9, issue-5,July 2019.

- **Surajit Basak, "**On Energy Efficient Secure Routing in Multi-hop Underlay D2D Communications for IoT Applications", Ad Hoc Networks (Elsevier), Communicated and received minor revisions in May, 2020. Impact Factor: 3.49.

- Palasri Dhar, "Drain Current versus drain voltage characteristics for an analytical Al0.25Ga0.75N/GaAs superlattics MOSFET "Superlattices and Microstructures (ELSEVIER)MAY 2020,Impact factor: 2.385 (communicated).

- **Sunipa Roy, "Formaldehyde Sensor to Defeat Sick Building Syndrome",** Sensor Letters (ASP), May 2020, Accepted, Article in press. Impact Factor: 1.5

- **Sunipa Roy, "Graphene based Room temperature H2 Gas Sensor",** IEEE sensor Journals (IEEE), May 2020,Impact Factor: 3.076 (Communicated).

- **Sunipa Roy**, "Facile Synthesis of ZnONanofoam on ZnO Nanowire for Hydrogen Gas Detection", Nanoscience and Nanotechnology Asia (Bentham Science), Volume 10, 1 Issues, 2020. Impact Factor:0.78(SCI).

- **Sunipa Roy**,"HierarchicalZnO Nanostructure based Highly Sensitive Formaldehyde Sensor to Defeat Sick Building Syndrome: Sensor letters (ASP), Accepted.June 2020. Impact Factor:0.60 (SCI).

- **Sunipa Roy**," Efficient Room Temperature Hydrogen Gas Sensor using ZnO Nanoparticles-Reduced Graphene Oxide Nanohybrid", IEEE Sensor Journal (IEEE Early Access), Impact Factor:3.584, DOI: 10.1109/JSEN.2020.3020755. August 2020(SCI).

- **Sunipa Roy**,"Analysis Of Thermal Noise With Device Scaling For Inasxsb1-X UtbMosfets In Sub 100 Nm Regime" JCR. 2020; 7(19): 4669-4677. doi: 10.31838/jcr.07.19.54 (SCOPUS).

International Conference

- **Sayan Roy Chaudhuri, et. al.** "Vehicle Pressure Limiting Bridge Model", published in International Conference -Frontiers in Engineering, Management and Applied Science 2019(FEMAS-2019), ISBN No: 978-93-5391-015-0,26-27th Sep,2019.

- **Sayan Roy Chaudhuri, et.al.** "A Review of PCA Based Face Recognition Methods", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep,2019.

- **Dr. Surajit Basak, et.al**."Control Electrical Devices Remotely Using RF"**,**published in International Conference-Frontiers in Engineering, Management and Applied Science-2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0.

- **Suparna Biswas, et.al.** "Programmable Wireless Based Telerobotics Surgery with heartbeat measurements and blood pressure and blood sugar measurements", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26th -27th Sep,2019.

- **Palasri Dhar, et.al.** "A Review of PCA Based Face Recognition Methods", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep,2019.

- **Suparna Biswas, Palasri Dhar,** "A Review of PCA Based Face Recognition Methods", published in International Conference-Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26th -27th Sep,2019.

- **Koushik Pal, et.al.**"RFID Tag Based Secuirity System", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep,2019.

- **Avali Banerjee, S.K.Das, A.Das,** "Transient Analysis of Crosstalk between Triple Traces on a Double Layer PCB", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Palasri Dhar, Dr. Sunipa Roy,** "Low Threshold Voltage AlGaAs/GaAs High Electron Mobility Transistor and AlGaN/GaN High Electron Mobility Transistor: A comparative Study", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep,2019.

- **Palasri Dhar, Suparna Biswas,** "Programmable Wireless Based Telerobotics Surgery with heartbeat measurements and blood pressure and blood sugar measurements", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep,2019.

- **Swagata Bhattacharya, et.al,** "Automated Greenhouse Controller", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Dr. Sunipa Roy et.al.**"Technological Development of Piezoelectric Mass Sensor", published in International Conference -Frontiers in Engineering, Management and Applied Science-2019(FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Sunipa Roy,** Gargi Bhattacharya, Amrita Banerjee "Modelling And Simulation Of Tunneling Current Through Gold Nanoparticles Composite Gate Dielectric", International Conference -Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Antara Ghosal, Sisir Kumar Das, Annapurna Das, "Analysis of a Slotted Microstrip Patch Antenna for Wireless communication,International Conference- Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Anurima Majumdar, Sisir Kumar Das, Annapurna Das, "DUAL POLARISED TETRA FREQUENCY CIRCULAR MICROSTRIP PATCH ANTENNA", International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Avali Banerjee,** Sanchari Saha, Wriju Banerjee, Tathagata Bhattacharyya, Saswata Sundar Maity, " Facial and Voice Recognition Based Security and Safety System in Car", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020.

- **Avali Banerjee,** Sangeeta Rana, S. B. Amreen Saba, Samayita Chakraborty, "Bionic Eye-A Review", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020.

- **SuparnaBiswas, PalasriDhar,** PriyaKumari, Sonali Mitra, RiyaSarkar, Sheik Md. Kadir, Wasif Zia, "SMART GARDENING SYSTEM", International Congress on Renewable Energy (ICORE-2020), Guru Nanak Institute of Technology, Kolkata, 7th - 8th February, 2020.

- SuparnaBiswas, Sayan Roy Chaudhuri, Dyuti Nandi, SulataPandit SudiptaMondal, MamatajulMondal, Swagoto Mukherjee, AkashPandey, , "Cell Phone Detector", International Congress on Renewable Energy (ICORE-2020), Guru Nanak Institute of Technology, Kolkata, 7th - 8th February, 2020.

- **SuparnaBiswas, PalasriDhar, Sunipa Roy, "Sun Tracker Forest Fire Detector"**,International Congress on Renewable Energy (ICORE-2020), Guru Nanak Institute of Technology, Kolkata, 7th - 8th February, 2020.

- **SuparnaBiswas and ShatadruBiswas,** "A REVIEW ON DOCUMENT SEGMENTATION METHODS, International Conference on "Future Trends and Technological Advancement in Engineering-2020" (ICFTTAE-2020),NIT,Kolkata, 31-01-2020 to 01-02-2020.

DEPARTMENT: CSE

International Conference

- **Srabani Kundu**,"A Realistic Sensing Model for Event Area Estimation in Wireless Sensor Networks" published in Springer proceedings of 4th ICACIE 2019. Rama Devi Women's University, Bhubaneswar, India, August, 2019.

- Srijit Pal, Pritimoy Sarkar, Udayaditya Sasmal, Saswata Mukhopadhyay, **Sayani Chandra,** "HuMoTS: Microcontroller based Humidity Monitoring and Transmission System" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26th - 27th Sept, 2019.

- Sandip Kumar Karmakar,Poulomi Kumar,Prothit Das,Joydeep Mukherjee, **Sourish Mitra,Ipsita Saha**,"IOT Based Microcontroller operated Noise management with efficient Power consumption Strategy in a Smart Library System" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019),ISBN No: 978-93-5391-015-0,26-27th Sep,2019.

- Bikramjit Das, **Nirupam Saha, Sourish Mitra, Bidyutmala Saha, Rafiqul Islam, Moloy Dhar**," IOT Based Quad-Copter for Sowing Seed, Sprinkling Fertilizer and identifying Suitable Crop in a Farming Land by Soil analysis and Weather Prediction" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0,26-27th Sep,2019.

- Yogesh Singh, Utattha Banerjee, Snigdha Mazumdar, **Sourish Mitra, Ipsita Saha, Santanu Kumar Sen,** "Human Motion Detection with Activity Tracking using OpenPose and modified Optical Flow" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Prafull Kumar, Priyam Halder, Rupak Dey, Sampriti Ghosh, **Sangeeta Bhattacharya, Mandira Banik,"**MiDoLS: A Microcontroller based Door Lock System" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay, **Sourish Mitra, Moloy Dhar, Nirupam Saha,"**Implementation of Voice Controlled Robot using Arduino: A Novel Approach", published in

International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Debleena Dutta, **Sangeeta Bhattacharya, Bidyutmala Saha,** "HFRS: A Microcontroller based Human Face Recognition System" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Ankita Adhikary, Amlan Dutta, **Mandira Banik, Amrut Ranjan Jena**, Sudeep Ghosh,"Smart Home Automation based on sensors and Microcontroller" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Pritam Saha, Partha Pratim Dey, Pronoy Dewanjee, Amrut Ranjan Jena, Mandira Banik**,"An Approach to Next Generation Lighting Method Using IoT and Gesture" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Soumili Ganguly, Suparna Hazra, Swagata Sen, Tapanova Khanra, **Srabani Kundu** ," Comparative Study of different Machine Learning Algorithms for Heart Disease Prediction" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Sourish Mitra, Sandip Kumar Shaw, Sandip Karmakar, Bidyutmala Saha, Rafiqul Islam, Santanu Kumar Sen,**"IOT based Mobile controlled ORC (Orthospinal roundback Curveture)-Kyphosis detection and measurement technique of Human spine" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Amrut Ranjan Jena, Mandira Banik, Sumit Banerjee,Anumita Das,**"WORDPRO, an Open Source Smart Word Processing Tool using Web technology and Android" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Srabani Kundu,**"Micro Controller Based Automated Traffic Monitoring System" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Amrut Ranjan Jena,"**A Fuzzy Graph Recurrent Neural Network Approach for the Prediction of Radial Overcut in Electro Discharge Machining" published in International Conference ICADCML 2020 (Springer Conference Proceeding with Scopus indexing) 30-31st January,2020

- **Mandira Banik,Subhadeep Saha,Sourav Basak, Subhrajit Roy,Suman Roy Choudhury,"**Self Driving Car using Raspberry Pi" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Pallabi Das,Nirupam Saha,Bishal Kumar Shaw, Bishal Lama, Sameema Nasrin, Rajveer Singh,"**IoT Based Remote Monitoring System of Pregnant Women in Rural Area" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Dr. Sangeeta Bhattacharyya,** Bikramjit Das, Biplab Roy, Debanjana Ghosh,Ankita Adhikari, Diganta Das, "DHaP: A Novel Neural Network based Digitization of Handwritten Prescription", published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- Subhadeep Saha, **Mandira Banik**, Sourav Basak, Subhrajit Roy, Suman Roy Choudhury,"Smart Home Automation based on Sensors and Microcontroller" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Ipsita Saha,**Yogesh Singh, Saswata Mukhopadhyay, "Processors for sustainability: An analysis of modern processors for power efficient IoT uses." published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Moloy Dhar,**Jhumpa Das, Disha Gaine, Durba Dey,"Human Activity Recognition" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

International Journal

- **Amrut Ranjan Jena**, "An Integrated Approach for Prediction of Radial Overcut in Electro Discharge Machining using Fuzzy Graph Recurrent Neural Network" accepted for International Journal of Embedded Systems [FREE JOURNAL], Scopus Indexed, SCI Indexed, Elsevier, May 2020 (Accepted) impact factor-0.34, https://www.inderscience.com/ info/inissues.php?jcode=ijes

- Sandip Kumar Karmakar, Sandip Shaw**, Sourish Mitra**, "Iot Based Finger-Print-Scanning-Biometric-Panel With Advanced Infra-Thermal-Scanning Strategy Comprising Of Automated Sanitizer-Spraying-Disinfectant-Gateway-Tunnel" published in international Journal International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, ISSN and UGC Approved, 5.75 Impact factor.

- Rohan Chakroborty, Subhajit Sanyal, **Pallabi Das,** "IoT based Thermal Signature Detector with Alarm & E-mail Notification with Integrated Social Gathering Screening using Computer Vision" published in The International Journal of Emerging Technology and Advanced Engineering-ISSN 2250–2459, Volume 10, Issue 4, pp-164-171,April 2020 UGC Approved, Impact Factor of 6.351.

- Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay, **Moloy Dhar, Amrut Ranjan Jena, Mandira Banik** "Implementation of Voice Controlled Robot using Arduino: A Novel Approach" published in International Journal of Emerging Technology and Advanced Engineering (ISSN 2250–2459(Online), An ISO 9001:2008 Certified Journal), Volume 10, Issue 04, April, 2020.

- **Somalina Chowdhury, Santanu Kr. Sen**, "Security in Smart Meter using IoT" Published in scopus Index, Impact factor 1.0,in international Journal of Engineering and Advanced Technology (IJEAT) atVolume-9 Issue-4 pg 2293-2295, April 2020 Issue on 30 April 2020.value of citation 6.02 (Scopus Indexed)

- **Amrut Ranjan Jena**, "A Fuzzy Graph Recurrent Neural Network Approach for The Prediction of Radial Overcut in Electro Discharge Machining" (Proceddings of Springer Lecture Notes in Networks and Systems (LNNS) Book series),published in International Journal - Advances in Distributed computing and Machine learing, pp-257-270,June-2020.

- **Amrut Ranjan Jena**,"A Fuzzy Graph Neural Network Approach for the Prediction of Radial Overcut in Electro Discharge Machining", accepted in International Journal IJSIR: Volume 13, Issue 1, Article 2. (Scopus Indexed, Springer) accepted, Feb,2020.

- **Sourish Mitra**, Sandip Karmakar, Bikramjit Das, Ankan Goswami, **Sutapa Sarkar**," Iot Based Human Orthospinal Roundback Curveture-Kyphosis Disease Recovery-Monitoring Technique Using Flex-Jacket" published in international Journal International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, ISSN and UGC Approved, 5.75 Impact factor,Feb-2020.

- **Sourish Mitra**, Ashesh Roy Choudhuri, Neela Chattopadhyay, Arshi Raina, Srijit Pal, "Iot Based Quad-Copter With Seed Sowing- Fertilizer Sprinkling- Suitable Crop Identification Strategy By Predicting Weather And Analyzing Soil: A Combo Solution Of Farming Land ", published in IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.7, Issue 1, Page No pp.479-484, February 2020.

- Subhaditya Banerji, Soumyajeet Kabi, Rohan Chakraborty, **Moloy Dhar, Amrut Ranjan Jena** "A SMART SEWAGE CLEANING SYSTEM USING INTERNET OF THINGS" Published in International Journal of Research and Analytical Reviews (IJRAR) at Volume 7 Issue 2 , Date of Publication:June 2020(UGC Approved (Journal No : 43602) & 5.75 Impact Factor)

DEPARTMENT: ASH

International Journal

- **Sucharita Bhattacharyya & Anup Kumar Thander**, "Study of H field using higher order compact (HOC) finite difference method in semi conductor rib wave guide structure",published in Journal of

Optics (Springer, SCOPUS indexed), 2019, 48(3), 345-356, DOI 10.1007/s12596-019-00546-w ISSN: 0972-8821.

- **Soma Mukherjee**, "Structural Characterization and transport properties of a bioactive glass" communicated in Acta Biomaterialia (Elsevier),April-2020.

- **Mr. Sourav Majumdar,** "Effects of cervical disc replacement and anterior fusion for different bone conditions: A Finite Element Study", International Journal for Multiscale Computational Engineering, DOI: 10.1615/IntJMultCompEng.2019030212,2019.

International Seminar/Conference

- **Dr. Sucharita Bhattachryya, Dr. Anup Kr. Thander,** "Numerical Study of Optical Wave Guide Communication : A New Approach", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS-2019), Technically Co-Sponsered by Institute of Engineers (India), Guru Nanak Institute of Technology, Kolkata, 26th - 27th September, 2019.

- **Dr. Soma Mukherjee**, "Structural Characterization and transport properties of a bioactive glass", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS-2019), Technically Co-Sponsered by Institute of Engineers (India), Guru Nanak Institute of Technology, Kolkata, 26th - 27th September, 2019.

- **Dr. Sucharita Chakrabarti, Sanjoy Biswas** "*m*-Dense Sets and Its Applications in *m*-Spaces", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS-2019), Technically Co-Sponsered by Institute of Engineers (India), Guru Nanak Institute of Technology, Kolkata, 26th - 27th September, 2019.

- **Dr. Indrajit Bose,** "Where Poles Meet: Demystifying the Language of Health Care Professional", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS-2019), Technically Co-Sponsered by Institute of Engineers (India), Guru Nanak Institute of Technology, Kolkata, 26th - 27th September, 2019.

Book Chapter

- **Dr. Sucharita Bhattacharya**,"Collapse of Natural Carcass Disposal System-Kolkata rotten meat incident-The insight study."a book Chapter published in Springer publication,pp-35-46,11th March-2020.
- **Dr. Sucharita Bhattacharyya**, "Green Campus Initiative: Response from a Self-financed Educational Campus—A Case Study", Published in: book Sustainable Waste Management: Policies and Case Studies in July 2019, Publisher: Springer Singapore.

DEPARTMENT: EE

International Conference

- **J.K. Das, Somalina Chowdhury**,"IoT base Auto Selection of Utility and Tariff", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- **Rikta Majumder**, Syead Nawas Sarif, Umapati Majhi**, "LI-FI(Light Fidelity) Based High Data Rate Visible Light Communication For Data And Audio Transmission", published in International Conference on Frontiers in Engineering, Management and Applied Science** 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- **Barnali Kundu**, Arghya Sarkar **"**Neural Network based Maximum Power Point Tracking in Grid Interfaced Photovoltaic System" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- Priyanka Dutta, **Madhumita Chakraborty**, "Automatic railway signal and gate controlling system using relay and LDR", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.
- **Madhumita Chakraborty**, Priyanka Dutta," Power generation through footstep", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Debasree Saha**, B. K. Saha Roy, P. N. Das, "A Secure Relay Setting for Protection Coordination in Renewable Energy-Based Distribution system" , published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Shyamal Kumar Roy, Amit Debnath, Pritam Chowdhury, "Design Mems Based Piezoelectric Micromotor & It's Applications", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Shyamal Kumar Roy, Suman Ghosh, Amit Debnath, Pritam Chowdhury, "Numerical Study in a Plasma Etch Reactor", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- Ritwik Ray Chaudhuri, Rishi Pradhan, Samprit Bandyopadhyay, Ronit Dutta, Suman Ghosh, "Design and Development of Real-Time and Low-Cost Arduino based Electronic Voting Machine (EVM)", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Susovan Dutta**, Anshumita Banerjee , Amit Agarwal , Prashant Shaw "Smart Automatic Railway Gate Control based on IoT system" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Priyanka Dutta,** "Single phase transformerless grid connected solar PV system with auto-synchroniser", published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **Priyanka Dutta,** "Arduino Based Parking Lot",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **Debasree Saha,** "Solar cooker (Box type)",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **Debasree Saha,** "Solar Car",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **R. Majumder, D.Saha, J K Das, SusovanDutta, Barnali kundu,** "Adaptive Protection Schemes for Wide Area Network: A Review",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **Debasree Saha,** "Advance Railway Signaling & Crossing System Using SCADA",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **SumanGhosh,** "Low Cost Fingerprint Based Electronic Voting Machine", published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Susovan Dutta**, "Laboratory Prototype of a Smart Solar Air Cooler",published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8thFeb 2020.

- **PritamChowdhury,** "Assortment of different charging portal and charging schemes of various cars in EHV charging stations", published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8th Feb 2020.

- **Shyamal Kumar Roy, Suman Ghosh ,**"Neural Protective Relay", published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Shyamal Kumar Roy, Suman Ghosh,** "Static series compensator and static transfer switch for voltage dip mitigation with short interruptions**",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **AmitDebnath, "**Automatic Street Lights Control Using LDR", published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **Amit Debnath**, "Bionic Glove: Universal Remote rehabilitation of the paralytics", published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8thFeb. 2020.

- **MadhumitaChakraborty,** "Green House And Modern Gardening Technique",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb. 2020.

- **MadhumitaChakraborty, "**Blood vessel segmentation of fundus images using image processing",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8thFeb. 2020.

- **PritamChowdhury,** "Load capacity management of different charging station located in urban area in Kolkata",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No:978935396-201-2, 7th-8thFeb. 2020.

- **BarnaliKundu, "**Self-synchronized ADALINE based Photovoltaic Incorporated Shunt Active Power Filter",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8th Feb. 2020.

- **BarnaliKundu,** "Automatic room light controller using Microcontroller and visitors counter", published inInternational Congress on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8th Feb. 2020.

- **R. Majumder,** "Automatic home lighting solution using human detection, sunlight intensity & room temperature sensor",published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8thFeb. 2020.

- **RiktaMajumder,** "Flame Seeker and Extinguishing Robot", published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8th Feb 2020.

- **SusovanDutta**,"Development of a Low Cost Automated Fire Fighting Robot", published in Forum of Scientists, Engineers & Technologists (FOSET 2020), 11th Inter University Engineering, Science & Technology Academic Meet – 2020 & Innovative Model Competition for a Sustainable Society, 15thMarch 2020.

- **SumanGhosh, J K Das, Chandan Kr. Chanda, "**Design and VAR Control of a Grid Connected Microgrid System with the Help of PMUs", 2nd International Conference on Energy Systems, Drives and Automations, ESDA 2019,ISBN 81-85824-46-2, Kolkata, 28th and 29th December, 2019.

International Journal

- **Suman Ghosh, J. K. Das, Chandan Kr. Chanda,** "A Unique Case Study on Real Valued Cost Analysis of a Small Solar Plant". Proceedings of ESDA2019, LNEE Book, Springer, ISBN 978-981-15-5089-8, Submitted on Mar 12, 2020(Communicated).

- **Suman Ghosh, J. K. Das , Chandan Kr. Chanda,** "Reactive Power Control Of A Real Valued Dvc Grid Connected Microgrid System With The Help Of Optimally Placed Pmu", Journal of 'Electrical Engineering' Springer, ISSN-1432-0487, Submitted on May 1, 2020. (Communicated).

DEPARTMENT: IT

International Conference

- **Chowdhury Md. Mizan**, **Pradipta karmakar** "Discrimination of Text and Non-Text Image" International Conference on Emerging Trends in Electro-Mechanical Technologies and Management (TEMT-2019),24-27 July, 2019. Proceedings in Springer, Indexes by Scopus.

- **Tridib Chakraborty, Sudeep Ghosh, Suparna Karmakar**, **Puja Mukherjee, Niladri Sen, Sandipan Kar** "Visual Cryptography for Online Certificate Authentication". Published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Sudeep Ghosh, Mandira Banik, Tridib Chakraborty**, **Arkajyoti Chakraborty**, "Repairing of functional TSVs Using Redundant TSVs." published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Trishita Ghosh**, Monishankar Nath, Arnab Banerjee, Prithwish Das "Congestion Control Approach by Controlling Number of Messages dynamically and by sharing the." published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Chowdhury Md. Mizan,** Rizwi Salim, Kumarika Mukherjee "Text detection from camera captured image" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Tridib Chakraborty, Sudeep Ghosh, Trishita Ghosh, Chowdury Md Mizan,** Soumyadipta Basu "A novel approach for Energy Optimization at Server Side Applications", published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Sudeep Ghosh, TridibChakrabotry, Chowdhury Md. Mizan, Trishita Ghosh,Silvia Das "**An Energy Efficient Architecture to repair Clustered Fault in 3D IC" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Suparna Karmakar,Chowdhury Md. Mizan, Sudeep Ghosh, Tridib Chakraborty, Subhojit Dey** "A First Order Hybrid Petri Net Model for Analysis of Building Power flow in Microgrid", published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7th-8th Feb, 2020.

- **Suparna Karmakar, Tridib Chakraborty, Sudeep.Ghosh, Trishita Ghosh, Madhurima Pan** "Generalised Stochastic Petri Net based Modelling Approach for Optimal Energy Management Strategy in aeronautical networks", published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

International Journal

- **Chowdhury Md. Mizan**, **Tridib Chakraborty, Sudeep Ghosh, Suparna Karmakar**"A Survey of Load balaced Job scheduling scheme in cloud computing" in FICR International conference on Rising Threats in Expert Applications & Solutions", Advances Intelligent Systems and Computing. Springer, ISBN 978-981-15-6013-2. May, 2020, (Book Chapter)

- **Tridib Chakraborty, Sudeep Ghosh, Trishita Ghosh, Chowdhury Md. Mizan, Suparna Karmakar,** "(3,3) VISUAL CRYPTOGRAPHY FOR ONLINE CERTIFICATE AUTHENTICATION", International Journal of Engineering and Advanced Technology(TM), ISSN: 2249-8958 (Online), Volume-9 Issue-6, June 2020. Scopus Index.

DEPARTMENT: FT

National Seminar / Conference

- **Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly (2020) "**Preparation of Papaya LeafExtract Fortified Whey Based Beverage", Abstract Published and Presented in **N**ational Seminar National Agriculture Higher Education Project organized byNational Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Dr. Kakali Bandyopadhyay, (2020) "**Introduction of Stevia in Dairy Product"Abstract Published and Presented in National Seminar National Agriculture Higher Education Projectorganized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Dr. Anju Paul (2020)** "Fruit Fortified Shrikhand" Abstract Published and Presented in National Seminar National Agriculture Higher Education Project organized by National Agricultural

Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Dr. Anju Paul(2020)** "Development of Bacteriocin Based Anti-Microbial Packaging (AMP) System For Enhanced Food Safety"Abstract Published and Presented in National Seminar National Agriculture Higher Education Projectorganized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Dr. Anju Paul and Ms. Rosalin Nath (2020)** "A Review on the Impact of Genetic Selection for Increased Milk Yield"Abstract Published and Presented in National Seminar National Agriculture Higher Education Projectorganized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Ms. Shairee Ganguly and Ms. Dolanchapa Sikdar (2020),** "Nutritional Composition of Plant Milk Soybean", Abstract Published and Presented in National Seminar National Agriculture Higher Education Project organized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

International Seminar / Conference

- **Dr. Kakali Bandyopadhyay& Ms. Shairee Ganguly** (2019) "Comparison of Frying Stability of Vegetable Oil with and Without Adding Black Cumin Seeds"Abstract Accepted and Presented in International**Conference** "**FEMAS 2019"** organized by GNIT, held on 26th and 27th September, 2019.

- **Dr. Kakali Bandyopadhyay, Ms.Shairee Ganguly**, Ms.Dolanchapa Sikdar (2019) "Enhancement of Nutraceutical Characteristics Baked Products"Abstract Accepted and Presented in International**Conference** "**FEMAS 2019"** organized by GNIT, held on 26th and 27th September, 2019.

- **Ms.Rosalin Nath, Ms.Dolanchapa Sikdar** (2019) "Effect of Irradiation on Food: Review" Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Ms. Dolanchapa Sikdar & Dr. Anju Paul** (2019) "Fortification of Ice Cream" Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Ms.Rosalin Nath, Ms.Dolanchapa Sikdar** (2019) "A Review on Citrus Fruit Peels as Potential Source of Some Beneficial Nutrients" Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Ms. Dolanchapa Sikdar & Ms.Shairee Ganguly** (2019) "IMF: Enhance The Self Life of Food" Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Ms. Rosalin Nath, Dr. Deborshi De & Dr. Kakali Bandyopadhyay** (2019) "Role of Neuropsychology – affecting individual discretion in food selection"Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Ms.Shairee Ganguly, Ms.Rosalin Nath** (2019) "Therapeutic Foods: A Solution for Malnutrition at a Low Cost"Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Ms.Dolanchapa Sikdar, Ms.Rosalin Nath,**(2020) "A review on energy conversion from rice straw waste" Abstract Published and Presented in InternationalConference ICORE 2020 (ISBN: 978-93-5396-201-2)organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Ms.Shairee Ganguly , Ms.Dolanchapa Sikdar (2020**)"Food coloring: Improving of the Appearance of Food" Abstract Published and Presented in InternationalConference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly (2020)**"Sesame Protein Isolates: Potential Sources of Nutrition" Abstract Published and Presented in InternationalConference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8thFebruary **.**

- **Ms.Dolanchapa Sikdar, Dr. Anju Paul (2020) "Application of Various Techniques for Meat Preservation"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Dr. Sreyashee Basu, Dr. Anju Paul (2020)** "Effect of coffee on human Health"Abstract Published and Presented in InternationalConference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February**.**

- **Dr. Anju Paul (2020)** "A review on cold plasma technology in food processing" Abstract Published and Presented in InternationalConference ICORE 2020 (ISBN: 978-93-5396-201-2)organized by GNIT in collaboration with SESI held on 7th and 8th February.

- **Dr. Anju Paul, Ms. Rosalin Nath, (2020)** "Review on utilization of pineapple waste" Abstract Published and Presented in InternationalConference ICORE 2020 (ISBN: 978-93-5396-201-2) organized by GNIT in collaboration with SESI held on 7th and 8th February.

International Journal

- **Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly** "A Review on Microbial-Pigment: A Good Source of Biocolour" The Pharma Innovation Journal, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV: 82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

- **Ms. Rosalin Nath, Dr. Kakali Bandyopadhyay,Ms. Dolanchapa Sikdar** "A Review on Mushroom: A Cancer Antidote", Journal of Emerging Technologies and Innovative Research 6(12):764-774 (2019),(ISSN-2349-5162) Impact Factor-5.87.

- **Dr. Anju Paul** "A review on extraction of glucose from rice" The Pharma Innovation Journal, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

- **Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly** "Hibiscus Petal, Fortified Fruit Juice- A Health Drink.",International journal of Creative Research Thought, 2020; 8(April) 2020, ISSN: 2320-2882, Impact factor: 7.9.(NAAS Rating).

- **Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly**, "Development and Characterization of Biocolour Fortified Yogurt: A New Pathway towards Functional Foods", International Journal of Engineering Trends and Technology (IJETT), 68(May):1-6,(2020) ISSN: 2231-5381. Impact Factor: 2.88, doi:10.14445/22315381/IJETT-V68I4P201,SSCOPUS indexed.

- Dr. Kakali Bandyopadhyay, "Study of Combined Action of Papaya Leaf Extract, Pomegranate and Lemon"- A Review, International Journal for Modern Trends in Science and Technology ISSN: 2455-3778, 6(May):67-71, 2020, Web of Science ResearcherID AAJ-4390-2020, impact factor: 3.320, Elsevier Indexed.

- **Ms. Dolanchapa Sikdar, Ms. Rosalin Nath, Dr. Kakali Bandyopadhyay** and Ishon Mollick,"Fortifications in Ice-cream with enhanced functional properties: A Review", International Journal for Modern Trends in Science and Technology ISSN: 2455-3778, 6(May): 2020 Web of Science, ResearcherID AAJ-4390-2020, impact factor: 3.320, Elsevier Indexed.

DEPARTMENT: AEIE

International Conference

- **Bapita Roy , Sanghamitra Layek, Suparna Maity**, Arpan Kumar Lahiri, Debasish Basu, Sumon Das "**An Integrated Approach for prototype design of a Structural Health Monitoring of Bridge**", FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

- **Suparna Maity, Bapita Roy, Santana Das, Sanghamitra Layek,** Anirban Saha, Subhajit Kumar Hooi "Smart way to design a high end Home Electrical Automation" FEMAS 2019, 26th-27thSeptember at GNIT, Kolkata, India.

- **Sanghamitra Layek, Santana Das, Bapita Roy, Suparna Maity**, Abhishek Shil, Upasana Roy Chowdhury "Analysis of Sweat Gland Activity and Electrical Resistance of Skin by GSR Meter" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

- **Santana Das, Sanghamitra Layek, Suparna Maity**, Tathagata Chatterjee, Atreyee Das, Subrit Dey "Design and Fabrication of Economical Anemometric Type Blood Flow Measuring Instrument" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

- **Paramita Banerjee, Sunipa Roy** "Technological development of Piezoelectric mass sensor: A Review" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

- **Sudip Kuila, Sanghamitra Layek , Swagat Das ,Tamasha Paul,Souvik Das** "Assessment of diabetes through Exhalation" ICORE 2020, February 6-7 at GNIT, Kolkata, India.

- **Bapita Roy, Paramita Banerjee, Sayani Dey, Shilpita Hazra, Sonali Das "Development of Non-Contact Type Surface Roughness Measurement System"** ICFTTAE 2020 at NIT, Kolkata, India.

- **Sudip Kuila, Surajit Bagchi "Noninvasive Assesment of Diaberies Mellitus"** ICFTTAE 2020 at NIT, Kolkata, India.

International Journal

- **Bapita Roy**, Prof.Dr.Rajib Chakraborty, "A novel method to study the characteristics of a plasmonic pressure sensors by semi analytical process", International Journal of Applied Optics,Impact Factor: 1.784 Total Citations: 38,885(ranked 4th out of 86 journals),Eigen Factor Score: 0.04119 (ranked 5th out of 86

journals)Impact Factor: 1.784 Total Citations: 38,885(ranked 4th out of 86 journals),Eigen Factor Score: 0.04119 (ranked 5th out of 86 journals),SCI indexed.According to Optics category rankings in the 2015 Journal Citation Reports.

DEPARTMENT: CA

International Conference

- **J.K. Das, Somalina Chowdhury**,"IoT base Auto Selection of Utility and Tariff", published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26th-27th September, 2019.
- **Somalina Chowdhury, Santanu Kr. Sen**," Designing of Smart meter in Smart grid using IoT" accepted in Manufacturing and Quality Engineering - Industrial Perspective on 14th March, 2020.
- **Somalina Chowdhury,** DebaratiBiswas,Rahul Nandi, KoushikMallick, Seema Ghosh, Rimpa Barman" Manufacturing of Smart Vehicle with IoT" accepted on 14th March, 2020, in Manufacturing and Quality Engineering - Industrial Perspective.
- **Somalina Chowdhury, Chiranjib Dutta**, Abhishek Kumar, Tithi Banerjee, Shreya Roy, SayaniBhattacharjee ,Rounak chowdhury " Designing of Smart city using IoT" accepted on 14th march' 2020,Manufacturing and Quality Engineering - Industrial Perspective.

International Journal

- **Somalina Chowdhury, Santanu Kr. Sen,** "Security in Smart Meter using IoT", published in scopus Index, Impact factor 1.0,in international Journal of Engineering and Advanced Technology (IJEAT) at Volume-9 Issue-4 pg 2293-2295, April 2020 Issue on 30 April 2020.value of citation 6.02 (Scopus Indexed).

2018-19

DEPARTMENT: FT

National Seminar / Conference

- **Kakali Bandyopadhyay**. (2018).“Studies on the Effects of Fortification in Soybean Oil During Frying” Airticle published in OTAI Annual News Letter 2018.

- **Anju Paul (2018)**. “Insect as Food” Abstract published in Seminar proceedings of National Seminar on “Recent Innovations in Food and Nutritional Sciences” Organized by Department of Nutrition Mugberia Gangadhar Mahavidyalaya In collaboration with Internal Quality Assurance Cell, Mugberia Gangadhar Mahavidyalaya, held on 31st August, 2018.

- **Shairee Ganguly (2019),** “Preparation of Ber Jam”, Abstract published in Seminar proceedings of National Seminar on “12th all India Peoples’ Technology Congress” organized by FOSET, held on 17th Feb, 2019.

- **Shairee Ganguly. Arka Roy Chowdhury (2019)**, “Banana Pseudo Stem – An Unexplored Possibility”, Abstract published in Seminar proceedings of National Seminar on “12th all India Peoples’ Technology Congress” organized by FOSET, held on 17th Feb, 2019.

- **Dr. Anju Paul (2019),** “Migration of Toxic Chemicals Compounds in Food Form Packaging Material” Abstract published in Seminar proceedings of National Seminar on “12th all India Peoples’ Technology Congress” organized by FOSET, held on 17th Feb, 2019.

- **Dr. Anju Paul (2019),** “Production of Dietary Fiber from Fruit Waste” Abstract published in Seminar proceedings of National Seminar on “12th all India Peoples’ Technology Congress” organized by FOSET, held on 17th Feb, 2019.

- **Dr. Kakali Bandyopadhyay, Shairee Ganguly. (2019),** “Vegetable Skin Powder – Utilization of Nutritional Active Vegetable Leftovers” Abstract published in Seminar proceedings of National Seminar on “12th all India Peoples’ Technology Congress” organized by FOSET, held on 17th Feb, 2019.

- **Dr. Anju Paul**. (2018) "Vitamin D: Some Important Informations" -Full paper published in Popular Science-Sharadiya Sankhya- Sep-Oct 2018.

- **Dr.Anju Paul** (2019) "Dairy Sheep Farming for Doubling the Farmer Income" -Full Paper published in Indian Dairyman, Feb 2019, Vol 71, No. 2, ISSN 0019-4603.

International Journal

- **Anju Paul, Sreyasree Basu, Mainak Debnath** and **Amit Kumar Barman ,** "Aveteran vitamin in versatile role: Vit K, The Pharma Innovation Journal, 7(9): 337-342 (2018), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03

- **Dr. Kakali Bandyopadhyay and Ms. Shairee Ganguly,** "Development and characterization of Biocolor (Brassica oleracea var. capitata f.rubra) fortified lime squash", The Pharma Innovation Journal, ISSN (E):2277- 7695 (2018), ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Dr. Kakali Bandyopadhyay and Ms. Shairee Ganguly,** "A Relative Study on Utilization of Fenugreek Seeds for Enhancement of the Antioxidant Activities in Various Baked Product"**,** International Journal of Agriculture & Environmental Science,ISSN 2394 – 2568 (2019), Impact Factor 1.47.

- **Kakali Bandyopadhyay and Shairee Ganguly**, "Studies on Extraction of Polyphenols from Food Wastes and Its Utilization for Fortification of Polyphenols", International Journal of Agricultural Engineering, 11(1):216-219 (2018) ISSN (E): 0976-7223, ISSN (P): 0974-2662, NAAS Rating 4.43.

- **Dr. Anju Paul**, Analysis and study on the antioxidant of citrus fruits, The Pharma Innovation Journal, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal (2019).

DEPARTMENT: ASH

National Seminar / Conference

- **Sourav Pal, Sourav Paul, Mainak Debnath, Indrajit Bhattacharyya, Sreyasree Basu***, "A Survey of Drinking Water Quality Parameters in different Districts of West Bengal", 3rd Regional Science and Technology Congress (Southern region), 2018, held during 18-19 December, 2018 organized by Bidhannagar College, Govt. of West Bengal and Department of Science and Technology and Bio-technology, Govt. of West Bengal.

International Seminar / Conference

- **Rajarshi Chakraborty, Arnab dey and Dr. Ratan Mandal**, "Conceptual approach of a Solar Thermal Steam Generator and its design & optimization" presented in International Conference of Sustainable Waste Management 8th ICON SWM 2018 held at Acharaya Nagarjuna University, Vijaywada during November 22-24,2018.

- **Sucharita Bhattacharyya, Souvick De, Shilajit Dey** (Guru Nanak Institute of Technology) &**Anwesh Bhowmick** (Guru Nanak Institute of Pharmaceutical Science and Technology)"Collapse of natural carcass disposal system – Kolkata rotten meat incidence: The insight study".Paper accepted for oral presentation at 8th ICON SWM 2018 during (22-24)November , 2018 at Acharjya Nagarjuna University, Guntur Vijaywada.

- **Anup Kumar Thander, Sucharita Bhattacharyya**"Application of Higher Order Compact (HOC) FDM in combination with Successive over Relaxation (SOR) method in Optical Waveguide Communication problems." Paper accepted for oral presentation at ICCACCS-2018 during (23-24) November 2018 at NIT, Agarpara.

- **Sreyasree Basu*, Indrajit Bhattacharyya, Mainak Debnath and Arup Mukherjee**(UGC Professor, Dept. of Bio Technology, MAKAUT, Haringhata), "Exploring the conceit structural behavior of Guar gum: Why the polysaccharide is a must in Italian ice cream" International conference of Carbohydrate Chemistry, held during 19-21 December, 2018 at IISER, Kolkata.

International Journal

- **Sreyasree Basu, Arup Mukherjee, Sonia Kundu**, "Semi-interpenetrating hydrogels from carboxymethyl guar gum and gelatin for ciprofloxacin sustained release", International Journal of Biological Macromolecules (ELSEVIER), 120 (2018) 1823–1833, ISSN: 0141-8130.

- **Anju Paul, Sreyasree Basu, Mainak Debnath, Amit Kumar Barman**, "A veteran vitamin in versatile role: Vit K", The Pharma Innovation Journal, 2018, 7(9), 337-342, E-ISSN: 2277-7695, P-ISSN: 2349-8242, NAAS Rating: 5.03

- **Chinmay Ghosh, Sanjoy Biswas, "**On the hyperbolic valued measure**",** Emerging Trends in Electronic Devices and Computational Techniques, DOI: 10.1109/EDCT.2018.8405075, Publisher: IEEE,ISBN No.978-1-5386-1484-6

DEPARTMENT: CSE

National Seminar/Conference

- **Moloy Dhar**,"Implementation of Driverless Pod Using Voice Commands" published in National conference, FOSET, NSHM KNOWLEDGE CAMPUS, 124 B.L. Saha Road, Kolkata – 700053,31ST MARCH, 2019.

- **Ipsita Saha"**A sustainable Solution towards E-waste Recycling",published on International Society of Waste Management, Air and Water Consortium of Researchers in International Colaboration (ISWMAW), 20th April, 2019,IEM Kolkata.

International Conference

- **Ipsita Saha,** Amit Kundu, Sadhan Kumar Ghosh, "A Business Model for Enterprise Resource Planning (ERP) by Establishing a Sustainable Supply Chain Management", 8th International Conference on Solid Waste Management at Achharyya Nagarjuna University, Vijaywada, pp.160 – 165, 22nd -24th November, 2018.

- Rahul Baidya, **Ipsita Saha**, Tapobrata Bhattacharya , Sadhan Kumar Ghosh,"Sustainable Waste Transportation in Kolkata Using DBMS and Image Sensing", 8th International Conference on Solid

Waste Management at Achharyya Nagarjuna University, Vijaywada, pp. 306 – 311,22nd -24th November, 2018.

- Avirup Das, **Srabani Kundu**,"To protect ecological system from electromagnetic radiation of mobile communication", International Conference on Distributed Computing and Networking (ICDCN 2019),PP-469-473, November-2018.

- **Sayani Chandra**,"Microcontroller Based Automated Room Light & Fan controller",IEEE Explore,ISBN:978-1-5386-1484-6,doi: 10.1109/ EDCT.2018.8405097,September-2018.

- **Ipsita Saha**,"Implementing Extended Producer Responsibility into the ERP model"pp. 1-5, IEEE Explore,ISBN:978-1-5386-1484-6, doi: 10.1109/ EDCT.2018.8405097,September-2018.

- **Moloy Dhar,**" Design of Driverless Pod Using Voice Commands: A Novel Approach", published in ICEECC-2019, Pailan College of Management & Technology, April 26-27, 2019.

International Journal

- Sandip Kumar Karmakar, Poulomi Kumar, Prothit Das, Rinki Dutta, Suman Roy Choudhury, **Bidyutmala Saha, Rafiqul Islam, Sourish Mitra**, "A Microcontroller Operated LASER based Railway Gate and Signal Controlling System with Efficient Accident Prevention Strategy via IP-Webcam related Video-Surveillancing" published on International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 7, Thompson Reuters indexed, UGC recognized, Issue IV, Apr 2019.

- Surajit Das, Rajib Bhowmik, Sanjay Dey, Shiladitya Saha,**Sourish Mitra,Sayani Chandra,Pallabi Das,Ipsita Saha**"Bluetooth Controlled Farming Machine using Arduino"published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,pp-2262-2269
April,2019.

- Prithwish Roy, Puja Mandol, Rajaditya Pramanik,Rupak Bhowmik, Samarpita Bhowmick,**Sayani Chandra, Sourish Mitra,Pallabi Das**,"Microcontroller based Fire Extinguisher with Bluetooth operated LPG Gas Leakage Detection and Prevention System",published in International Jpurnal-

IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019.

- Tuhina Basu, **Sraboni Kundu, Nirupam Saha,Sourish Mitra,Sayani Chandra, Sangeeta Bhattacharya,Ipsita Saha,Bidyutmala Saha**,"A Wireless Framework for Emergency Health Care System"published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887, ISRA Journal Impact Factor: 4.895, ISSN-2321-9653,April,2019.

- Subhasis Thakur,Subhashis Thakur,Sourav Nandy,Sujoy Maikap,Sudeshna Ghosh,Souvik Sur,Moloy **Dhar ,Sourish Mitra, Srabani Kundu**"Bluetooth Based Microcontroller Operated Baby Bed Security System with IP Webcam Video Monitoring" published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019.

- Anindita Ghosh, Debolina Mukherjee, Deepjyoti Das, Manisha Chakraborty,**Sayani Chandra,Sourish Mitra,Nirupam Saha,Ipsita Saha,**"Colour based Product Organization Tool using Arduino" published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019

DEPARTMENT: AEIE

International Journal

- **Bapita Roy**, Rajib Chakraborty ," Segmented multimode to dual port slot couplers as compact optical sensors with improved sensitivity "Journal of Modern Optics, SCI indexed, impact factor: 1.267 ISSN: 0950-0340 (Print) 1362-3044 (Online) Journal homepage: http://www.tandfonline.com/loi/tmop20.

International Conference

- **Paramita Banerjee**, Ratna Ghosh and Bhaswati Goswami, " Analysis of major mode of vibration of a RFA based dental implant stability measuring sensor with varying length of L arm", IEEE Conference on Applied Signal Processing 2018, December 7-9, 2018 at JadavpurUniversity.

- **Paramita Banerjee**, Ratna Ghosh,"Electrical equivalent cascade model of piezoelectric based sensor", IEEE Conference on Applied Signal Processing 2018, December 7-9, 2018 at Jadavpur University.

- Debojyoti Banerjee, **Paramita Banerjee,** Bhaswati Goswami and Ratna Ghosh,"Electrical equivalent cascade model of piezoelectric based sensor", IEEE Conference on Applied Signal Processing 2018, December 7-9, 2018 at Jadavpur University.

DEPATMENT: IT

International Conference

- Suparna Karmakar**,"**Activity Oriented Petri Net Model Based Realization of Airport Apron Traffic Dynamics Modelling"; International Conference on Electrical, Electronics,Computer Science & Civil Engineering (ICEECC-2019) April 26-27, 2019 .

- **Tridib Chakraborty**, "Monitoring Suspicious Discussions on Social Media Case Study"; International Conference on Electrical, Electronics, Computer Science & Civil Engineering (ICEECC-2019) April 26-27, 2019.

- **Chowdhury Md Mizan**,"Matrix method for distinction between Text and Non-text Images"; International Conference on Electrical, Electronics, Computer Science & Civil Engineering (ICEECC-2019) April 26-27, 2019 .

- **Sudeep Ghosh**, "Clustered Fault Tolerance Redundant TSVs Placement for 3D Integrated Circuit" 37th IEEE International Conference on Computer Design (IEEE ICCD'19), November 17 - 20, 2019, New York University – Abu Dhabi Campus, United Arab Emirates (U.A.E.). (Communicated).

- **Tridib Chakraborty**, Ipsita Bera, Indrani Dey "Market basket analysis-A formal approach" International Conference on Electrical, Electronics,Computer Science & Civil Engineering (ICEECC-2019), April 26-27.2019. Kolkata.

International Journal

- Pradipta Karmakar, **Mizan Chowdhury**, SayakDasgupta, Saptaparna Das. "Distinction between text and non-text using Ensemble classifier."International Journal of Computer Science and Engineering (ISSN: 2347-2693) Vol. 7, issue 5, May 2019.

- Pradipta Karmakar, **Mizan Chowdhury**, Sayak Dasgupta, and Tridib **Chakraborty**, "Mean Average Accuracy for text and non-text images using SVM classifier." International Journal of Computer Science and Engineering (ISSN: 2347-2693) Vol. 7, issue 5, May 2019.

- **Sudeep Ghosh, Mandira Banik, Tridib Chakraborty**, Niraj Pandey, "TSV based 3D-SIC Testing" International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1403-1406 Volume-5, Issue-3 ,June, 2019.

- **Tridib Chakraborty, Trishita Ghosh, Sudeep Ghosh, Monishankar Nath**, "Hybrid routing protocol in Vehicular Ad-hoc Network," International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1385-1387 Volume-5, Issue-3, June, 2019.

- **Sudeep Ghosh, Mandira Banik,Tridib Chakraborty**, Rohan Rajak "International Journal of Scientific and Engineering Research (IJSER)" (ISSN-2229-5518) Volume 10, Issue 6, June 2019 .

- Indrani Dey, **Tridib Chakraborty, Trishita Ghosh, Chowdhury Md Mizan** "Intelligent Chatbot Using Machine Learning" Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1285-1288 Volume-5, Issue-3 ,June, 2019.

DEPARTMENT: EE

National Seminar/Conference

- Sneha Sarkar, Sayoni Ghosh , Sayantan Saha, **Dr. J K Das , Susovan Dutta**, "Development of a low cost IOT sensors suite framework for remote sensing applications", 10th Academic Meet 2019 organised by FOSET on 31st March, 2019.

- **Anindita Ganguly,** Sanjib Kumar Samanta, Roudri Samanta, Nilotpal Chakraborty, Neelakshi Ganguly and Aishik Panigrahi,"A Computational approach to broad Cardiac disorders in the light of Ayurveda" presented at FOSET, NSHM campus, 10th academic meet 2019.

International Conference

- Sailesh Verma, Aniruddha Ghosh, **Anindita Ganguly**, "Analysis of time delayed nonlinear equations using HF functions" 19th-21st July, 2018 presented at International Conference on Mathematical Modelling and Scientific computing (ICMMSC 2018 at IIT Indore).

- **Anindita Ganguly**, Tathagata Roy Chowdhury, **Suman Kumar Ghosh**, Aishik Panigrahi, Nilotpal Chakraborty and Anirudhha Ghosh, "Unidentified input observer: comparative study through Block pulse function and Hybrid function" presented at CIPR-2019, IIEST Shibpur on 19th-20th January.

- Nilotpal Chakraborty, **Anindita Ganguly**, Neelakshi Ganguly,"Solving Stochastic Differential equations by Hybrid Functions" presented at MSAST 2018, Indismart Hotel, Saltlake on 21-23 Dec 2018.

International Journal

- **Suman Ghosh, Dr. J. K. Das, Prof (Dr) Chandan Kr. Chanda**, "Placement of phasor measurement unit for complete observability of isolated micro grid system", Microsystems Technologies, Springer, vol 25, issue 4, March 2019. SCI Indexed.

- **Dr. J. K. Das et al**, "Power tracing & mapping of dynamic behaviour of a microgrid", IE(I) Annual Technical Volume, April 2019. ISBN: 978 – 81-939709-4-2, SCOPUS Indexed.

- **Barnali Kundu**, S. Mondal, S. Roy, S. K. Giri, S. Pal "Modelling and Analysis of Photovoltaic Grid Interfaced System using P&O Algorithm based MPPT", International Journal of Computer Sciences and Engineering, vol. 7, no. 18, pp. 226-230, May 2019.

- **Debasree Saha**, B. K. Saha Roy, P. N. Das, " Online adaptive protection scheme for electrical distribution network with high penetration of renewable energy sources", Journal of Engg. Research Vol. 8 No. (2) June 2019 pp. 242-258 (SCI indexed).

DEPARTMENT: ECE

National Seminar/Conference

- **Kausik Pal,"**GSM Based Home Automation System" published in National conference, Foset, Nshm Knowledge Campus, 124 B.L. Saha Road, Kolkata – 700053,31ST MARCH, 2019.

- **Kausik Pal**,"Empowerment of Villages Through Technology" published in National conference, FOSET, NSHM KNOWLEDGE CAMPUS, 124 B.L. Saha Road, Kolkata – 700053, 31ST MARCH, 2019.

- **Dr. Sunipa Roy**,"Green Power Generation for Rural Development" published in National conference, FOSET, NSHM KNOWLEDGE CAMPUS, 124 B.L. Saha Road, Kolkata – 700053, 31ST MARCH, 2019.

- **Dr. Suparna Biswas,Mr. SayanRoy Chaudhuri,"**XOR Problem Solution Using Neural Network" published in National conference, FOSET, NSHM KNOWLEDGE CAMPUS, 124 B.L. Saha Road, Kolkata – 700053, 31ST MARCH, 2019.

International Journal

- **Sunipa Roy et.al.** , "Facile Synthesis of ZnO Nanofoam on ZnO Nanowire for Hydrogen Gas Detection", Published in Nanoscience and Nanotechnology Asia (Bentham Science),Article in press. (Impact factor: 0.73). DOI : 10.2174/2210681208666180927103948,November,2018.

- **Sunipa Roy et.al.** , "Development of microcontroller based integrated gas sensor system for detecting combustible gases", Facile synthesis of multi-layer graphene by electrochemical exfoliation using organic solvent, Nanotechnology Reviews (DE GRUYTER), Accepted, Article in press. (Impact factor: 1.945), October,2018.

- **Avali Ghosh,Sisir K. Das and Annapurna Das,** "Modeling of Via Interconnect through Pad in Printed Circuit Board", accepted in The Applied Computational Electromagnetic Society Journal- ACES (SCI Expanded) on 09th Dec 2018.

- **Surajit Basak**, "Spectrum-aware outage minimizing cooperative routing in cognitive radio sensor networks", article in press in Springer Journal of Wireless Networks.

- **Avali Ghosh**, Sisir K. Das and Annapurna Das,"Interference Effects of Via Interconnect in Three Layer Printed Circuit Board",The Applied Computational Electromagnetic Society Journal ACES (SCI Expanded), Vol. 33, No. 9, September 2018, p1040-1047.

- Anurima Majumdar, **S. K. Das, And A. Das**, "Ultra Wide Band Cpw Fed Patch Antenna With Fractal Elements And Dgs For Wireless Application", Pier, Accepted On 9th July 2019.

- Poulomi Das, Pratyasha Mitra, Ankita Pal, Kaustuva Chakraborty and **Surajit Basak**, "On BER Minimizing Routing and Power Allocation in Multi-Hop Cognitive Radio Ad-Hoc Networks", International Journal of Engineering Science and Computing (IJESC), vol. 9, no. 5, pp. 22288- 22290,

May 2019.

- **Avali Banerjee** , Tanusri Roy, Titas Ghosh, Stuti Ghosh and Srijoni Malakar"Stability and Control of Quadcopter", in IJSRD - International Journal for Scientific Research & Development Vol. 7, Issue 03, 2019 ISSN (online): 2321-0613, p1914-1918.

- Avirup Mondal, Bikram Saha, Ananya Biswas, **Anurima Majumdar, Antara Ghosal**, "IoT Based Auto-Irrigation System for Agriculture", in International Journal of Emerging Science and Engineering (IJESE)' at Volume-6 Issue-4, June 2019.

- **SuparnaBiswas, Jaya Sil and Santi. P. Maity,** "Compressive Sensing based Gender Recognition", International Journal of Advance in Computer Science & its application – IJCSIA 2018 Volume 7 : Issue 2 , ISSN : 2250-3765, 25 July, 2018.

International Conference

- **Suparna Biswas**, "Compressive sensing based expression recognition", accepted in Second International Conference on Advanced Computational and Communication Paradigm (IEEE)will be held on 25-28 February 2019.

- **Dr. Sunipa Roy,**"Synthesis of Multi Layer Graphene by Electrochemical Exfoliation using Alkaline Solvent", published in PRAYAS 2019 IET-UK (Kolkata LN), MCKV Institute of Engineering,April 27, 2019.

- **Dr. Suparna Biswas,**"COMPRESSIVE SENSING BASED EXPRESSION RECOGNITION" published in IEEE sponsored International Conference on Advanced Computational and Communication Paradigms,Sikkim Manipal Institute of Technology, Sikkim.April,2019.

- **Mr. Sayan Roy Chaudhuri,**"LASER Based Communication System", published in PRAYAS 2019 IET-UK (Kolkata LN), MCKV Institute of Engineering,April 27, 2019.

- **Soma Boral,** "Optimal Path Selection in Node-disjoined Multipath Routing in MANET Using AODV Protocol" published in PRAYAS 2019 IET-UK (Kolkata LN), MCKV Institute of Engineering,April 27, 2019.

- **Surajit Basak**,"On Network Lifetime Centric Resource Allocation in Multi-band Cognitive Radio Networks."published in PRAYAS 2019 IET-UK (Kolkata LN), MCKV Institute of Engineering,April 27, 2019.

- "PADMINI: AN INTELLIGENT WOMEN SAFETY DEVICE", Ayon Majhi, Atanu Kumar Bagh, Ankan Das, Ayon Maji, **Anurima Majumdar**, IEEE CASS TECHNICAL PAPER CONTEST 2019 Jointly Organized By IEEE CASS Student Branch Chapter And IEEE CASS Kolkata Section, 3rd May 2019

- "Li-Fi : Design And Implementation Of Visible Light Communication", Joy Das, Kushal Ghosh, Atanu Chowdhury, Arijit Bhukta, **Anurima Majumdar**, IEEE CASS TECHNICAL PAPER CONTEST 2019 Jointly Organized By IEEE CASS Student Branch Chapter And IEEE CASS Kolkata Section , 3rd May 2019

2017-18

DEPARTMENT: CSE

International Journal

- **Srabani Kundu,Bidyutmala Saha,Sourish Mitra**,"A Light Weight Distributed Algorithmic Approach for Optimal Deployment of Sensor Nodes over 3D Wireless Network System", accepted on IJRASET (International Journal for Research In Applied Science and Engineering Technology)UGC Approved (Journal No-45842(ISSN-23219653, Thomosn Reuters Researcher ID: N-9681- 2016, Scientific Journal Impact Factor: 6.887, IC Value: 45.98,Volume 5, Issue VIII, August 2017,August 2017.

- **Sourish Mitra,"**Arduino Based Bluetooth Operated Car Wiping Technique Using Android Mobile Phone"[PP-1794-1797] published on International Research Journal of Engineering and Technology e-ISSN: 2395-0056,p-ISSN: 2395-0072,Volume: 04,Issue: 12 ,Thompson-reuter researcher ID: A-5672-2016,Impact factor:6.1,Dec-2017

International Seminar / Conference

- **Ipsita Saha**, Amit Kundu, Sadhan Kumar Ghosh " Exploring the rationale between ERP and EPR in Asian Countries using cloud based Approach" Accepted and invited for oral presentation at 7th International Conference on Solid Waste Management at PJTSAU, Hyderabad, Telengana on 15th -17th December,2017

- **Ipsita Saha**, Amit Kundu, Sadhan Kumar Ghosh "Organizational Perspective of Critical Success factor to establish ERP as a Sustainable Solution" Accepted and invited for oral presentation at 11th ISDSI International Conference at Indian Institute of Management Tiruchirappalli on December 28 - 30, 2017

- **Ipsita Saha**, Amit Kundu, Sadhan Kumar Ghosh "Cloud Computing Based Sustainable Approach towards E-waste Management in India" Accepted and invited for oral presentation at International Conference on Waste Management "RECYCLE-2018" at Indian Institute of Technology Guwahati, Guwahati, India on 22-24 February,2018.

- **Srabani Kundu**,"Boundary Detection and Area Estimation of an Event Region in Wireless Sensor Networks using Digital-Circles",accepted on ICDCN'18: Workshops co-located with the International Conference on Distributed Computing and Networks 2018, January 4–7, 2018,Varanasi, India. ACM, New York, NY, USA, 2 pages. https://doi.org/10.1145/3170521.3170542.

- Pallabi Das, Madhumita Banerjee, Monami Daw, Manisha Pal, Pragati Ghosh,**"Feature Detection of Autistic Gene using Genetic Algorithm"**Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

DEPARTMENT: FT

International Seminar / Conference

- **Kakali Bandyopadhyay (2018)** "Application of optical sensors in determination of light absorbent of purple cabbage fortified lime squash"- Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

National Seminar / Conference

- **Chaitali Chakraborty. And Kakali Bandyopadhyay,** (2017). Banana Peel Muffin: A great way of waste utilization, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Kakali Bandyopadhyay**. And **Chaitali Chakraborty,** (2017). Processing of Jackfruit seed flour, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Chaitali Chakraborty**. And **Kakali Bandyopadhyay,** (2017). Qualitative analysis of Coffee Yoghurt, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Kakali Bandyopadhyay** and **Chaitali Chakraborty**, (2017). Preparation and Characterization of Fortified Yogurt, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Dr. Anju Paul** (2017) "Utilization of Whey Protein to Enhance The Nutritional Quality of Biscuit"- Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Kakali Bandyopadhyay (2017)** "Anthocyanins: Sources, Application, antioxidant activity and its role as biocolor"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent

Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Kakali Bandyopadhyay, Shairee Ganguly (2017)** "Freeze dried Jamun Powder fortified lassi: Source of nutracuticals"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Anju Paul (2017)** "Quercetin Fortified Skimmed Milk"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Anupam Ghosh (2017)** "Nutraceuticals- The pharmaceutical super foods"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Anupam Ghosh (2017)** "Silver Nano-Particle in Cancer Treatment"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017

- **Kakali Bandyopadhyay and Ipsita Sen (2017)** "Nutraceutical Analysis of Jackfruit Seeds"-Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Anupam Ghosh and Kakali Bandyopadhyay (2018) "**Applications of industrial tea waste**"-** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet

– 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

- **Anupam Ghosh and Kakali Bandyopadhyay (2018) "**Oxidative Stability of Vegetable Oils during Frying**"** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

- **Kakali Bandyopadhyay and Shairee Ganguly (2018) "**Fenugreek seed: an oxidative stability enhancer of soybean Oil during frying**"-** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

- **Shairee Ganguly and Arka Roy Chowdhury (2018) "**A safer pathway to preserve fish-no more formaldehyde**"-** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

Interational Journal

- **Chaitali Chakraborty, and Kakali Bandyopadhyay,** Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Review, International Journal of Engineering Research and Science & Technology, **6**(1): 114-125, (2017) ISSN 2319 – 5991,IF:1.09.

- **Chaitali Chakraborty,** and **Kakali Bandyopadhyay**,Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development: A Review, International Journal of Engineering Research and Science & Technology, 6(1):137-148, (2017), ISSN 2319 – 5991,IF:1.09.

- **Chaitali Chakraborty**,and **Kakali Bandyopadhyay** Banana peel wastes: potential source of antioxidant in banana chips, International Journal of Agricultural Science and Research (IJASR),**7**(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; Impact Factor (JCC): 4.8136; NAAS Rating: 4.13; IBI Factor: 3.2

- **Chaitali Chakraborty** and **Kakali Bandyopadhyay** Textural Analysis of Spongy Indian Milk Dessert (Rasogolla) Fortified with Potato Powder**,** , International Journal of Current Microbiology and Applied Sciences(IJCMAS), 6(4): 2414-2420 (2017) ISSN:2319-7692(Print); ISSN:2319-7706(Online), NAAS Rating: 5.38, ICV:85.95, Impact Factor:2.937.

- **Chaitali Chakraborty, Shairee Ganguly** and **Kakali Bandyopadhyay**, Development and Characterization of Biocolour (Beta vulgaris) Enriched Low Calorie Lassi (Yogurt Based Beverage),International Journal of Current Microbiology and Applied Sciences(IJCMAS),6(4) 2265-2270 (2017) ISSN:2319-7692(Print); ISSN:2319-7706(Online), NAAS Rating: 5.38, ICV:85.95, Impact Factor:2.937.

- **Chaitali Chakraborty, Kakali Bandyopadhyay, Shairee Ganguly** Evaluation of Rheological, Physicochemical and Sensory Properties of low Calorie Coffee Yogurt,The Pharma Innovation Journal, 6(7): 106-109 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Chaitali Chakraborty**, **Kakali Bandyopadhyay**, **Shairee Ganguly** Potential of raw banana peel as a source of polyphenol in muffins, The Pharma Innovation Journal, 6(10): 40-43 (2017), ISSN (E): 2277-7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Kakali Bandyopadhyay**, **Chaitali Chakraborty,and Shairee Ganguly** Change in physicochemical properties of edible oil during frying: A review ,The Pharma Innovation Journal, 6(10): 196-199 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Chaitali Chakraorty**, and **Kakali Bandyopadhyay**, Neutraceutical Potential Of Some Rare Fruits & Vegetables: A Review, The Pharma Innovation Journal, 6(10): 421-424 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Chaitali Chakraorty**, and **Kakali Bandyopadhyay**, Utilization of Various Seeds: A Review, The Pharma Innovation Journal, (Accepted), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.
- **Chaitali Chakraborty** and **Kakali Bandyopadhyay,** "Textural Analysis of Spongy Indian Milk Dessert (Rasogolla) Fortified with Potato Powder", International Journal of Current Microbiology and Applied Sciences ,6(4): 2414-2420, (2017).ISSN: 2319-7706 (NAAS Rating: 5.38)

- **Shairee Ganguly, Chaitali Chakraborty and Kakali Bandyopadhyay,** "Development and Characterization of Biocolour (*Beta vulgaris*) Enriched Low Calorie Lassi (Yogurt Based Beverage)", International Journal of Current Microbiology and Applied Sciences,6 (4): 2265-2270, (2017) ISSN: 2319-7706 (NAAS Rating: 5.38).

- **Chaitali Chakraborty**, **Kakali Bandyopadhyay**, , "Banana peel wastes: potential source of antioxidant in banana chips", International Journal of Agricultural Science and Research (IJASR), **7**(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; Impact Factor (JCC): 4.8136; (NAAS Rating: 4.13); IBI Factor: 3.2.

- **Kakali Bandyopadhyay**, Utilization of Various Seeds: A Review, The Pharma Innovation Journal, 6(11):93-101 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Kakali Bandyopadhyay, Shairee Ganguly,** Studies on Extraction of Polyphenols from Food Wastes and its Utilization for Fortification of Polyphenols**:** International Journal of Agricultural Engineering, ISSN (E): 0976-7223, ISSN (P): 0974-2662, NAAS Rating 4.43.

- **Anju Paul**"Study On Antimicrobial Properties And Medicinal Value of: Adhatoda Vasica, Centella Asiatica, Paederia Foetida, Nyctanthes Arbor-Tristis, Ocimum Tenuiflorum" International Journal of Current Microbiology &Applied Sciences ; 2018 7(5), 1406-1413 , ISSN No.:2319-7692 (P), NAAS Rating 5.38

DEPARTMENT: ASH

National Seminar / Conference

- **Anup Kumar Thander and Dr. Sucharita Bhattacharyya**,"Optical modal analysis in rib waveguide structures using higher order compact(HOC) FDM in combination with Biconjugate Gradient Stabilized (BiCGSTAB) method", TOPAS-2017 to be held on 16-17 December 2017 at IIT Kharagpur (Abstract Accepted).

- **Dr. Soma Mukherjee**: "Transport properties of ionic yLi_2SO_4-^{2}(1-y)[$ZLi_2O.B_2O_3$] glasses",2nd Regional Science and Technology Congress (Southern Region). 2017 organized by University of Kalyani & Dept. of Higher Education , Science & Technology and Biotechnology, Govt. of West Bengal held during 14-15th Dec 2018 at Kalyani Univ.

- **Dr. Soma Mukherjee** : "Transport properties of ionic yLi_2SO_4-^{2}(1-y)[$ZLi_2O.B_2O_3$] glasses",Accepted for oral presentation in 25th West Bengal State Science & Technology Congress, 2018 scheduled to be held during 4-5h March 2018 at Science City Auditorium.

National Journal

- **Dr. Sucharita Bhattacharyya**: Numerical Study in Optical Wave-Guide Communication: A Different Approach published in Proceedings of National Conference on Modern Trends in Physics (NCMTP 2017) with ISBN: 978-93-86675-29-3 on February 2018.

International Seminar / Conference

- **Dr. Sucharita Bhattacharyya,** Green Campus Initiative : Response from a Self-financed Educational Campus – A Case Study, Abstract is accepted in ICON 2017 to be held at Hyderabad, during 15-17 December, 2017.

- **Dr. Soma Mukherjee:** Frequency dependent conductivity and dielectric properties of $LaMnO_3$ doped Lead-Vanadate glasses with nanocrystalline phases, Abstract accepted in 105th ISC to be held in Manipur, during 16-20 March, 2018.

- **Anup Kumar Thander and Dr. Sucharita Bhattacharyya,** Optical Modal Analysis in H Field using Higher Order Compact (HOC) FDM in combination with Conjugate Gradient Method, presented in IEEE conference ICMAP 2018, held at IIT(ISM), Dhanbad during 9-11 February, 2018.

- **Sanjoy Biswas**, "On the Hyperbolic Valued Measure"during 8-9 March 2018 presented at Emerging Trends in Electronic Devices and Computational Techniques (EDCT) held at Guru Nanak Institute Of Technology.

- **Arnab Dey, Bipul Nath, Biplab Mandal, Rajarshi Chakraborty**,"New approach of a Conceptual Solar Thermal Steam Generator and its Design & Optimization" during 8-9 March 2018 at Emerging Trends in Electronic Devices and Computational Techniques (EDCT) held at Guru Nanak Institute Of Technology.

International Journal

- **Dr. Chinmay Ghosh,Sanjoy Biswas,** "HYPERBOLIC VALUED SIGNED MEASURE" published in "International Journal of Mathematics Trade and Technology" Thompsons & Reuters indexed with ISSN: 2231-5373.

- **Ashis Kumar Dey, Subrata Chatterjee and Koushik Biswas:** Effect of Oxides Additives on Phase Evolution and Tribological behaviour of Zirconia-Toughened Alumina Composites, Journal of Materials Engineering and Performance 26 [12] (2017) 6107-6116.

- **Anup Kumar Thander and Dr. Sucharita Bhattacharyya**, "Optical Modal Analysis in H Field using Higher Order Compact (HOC) FDM in combination with Conjugate Gradient Method", Published in IEEE xplore (Web of Science) , Thompsons & Reuters indexed with ISBN : 978-1-5386-0933-0/18.

DEPARTMENT: IT

International Seminar / Conference

- **Baisakhi Das**, Anupama Mondal, Salma Mandi, Nilanjana Das and Biplab K Sikdar, Evaluation of Misspeculation Impact on Chip-Multiprocessors Power Overhead; International Conference on Cognitive Informatics and Soft Computing (CISCom 2017), Nov 17 -18, 2017, Bangkok, Thailand (Communicated).

- **Baisakhi Das**,Mamata Dalui, Anupama Mondal, Salma Mandi, Nilanjana Das and Biplab K Sikdar, Evaluation of Misspeculation Impact on Chip-Multiprocessors Power Overhead; International Conference on Software and Computer Application (ICSCA 2018), Feb 8 -10 , 2018, Malaysia .

- **Sudeep Ghosh**, Surajit Kumar Roy, Hafizur Rahaman, Chandan Giri "TSV Repairing for 3D ICs using Redundant TSV"; 7th International symposium on Embedded computing & system Design (ISED),December 18-20, 2017, NIT, Durgapur.

- Mousimi Saha,**Baisakhi Das** and Biplab K Sikdar; Periodic Boundary Cellular Automata Based Test Structure For Memory; 15th IEEE East-West Design & Test Symposium; Sept 29 - Oct 2, 2017; Novi Sad, Serbia.

International Journal

- **Baisakhi Das,** Biplab K Sikdar, Evaluating Impact on CMPs' Power for Design Inaccuracy Diagnosis; International Journal of Computer Applications in Technology (IJCAT), , Vol. 56, No. 3, pp.198–209.SCI indexed, January,2018.

- **Trishita Ghosh**,Ashutosh Debnath, Ankita Paul, Chayan Chattopadhyay, Saheli Hazra , Sumit Kumar Singh "Hybrid Routing Approach Depending on Different Message Types in VANET" International Journal of Scientific Research in Computer Science, Engineering and Information Technology,Vol-3, issue-5,pp 335-338.Indexing in Google Scholar, Citeseer, ICI. ISSN: 2456-3307, April,2018.

- **Trishita Ghosh**, Ashutosh Debnath, Chayan Chattopadhyay, Sumit Kumar Singh "A Comparative Study of Different Emerging Routing Protocols in VANET" International Journal of Emerging Technologies in Engineering Research (IJETER).Vol 6, Issue-5, pp-129-134.Thomson & Reuters research ID-H-8878-2016. ISSN- 2454-6410. April,2018.

- **Sudeep Ghosh,Tridib Chakraborthy**, Rohan Rajak "A New Approach For TSV Based 3D-SIC Testing" International Journal of Emerging Technologies in Engineering Research (IJETER).Google scholar, Thompsons & Reuters Research ID: H-8878-2016.(Accepted)ISSN- 2454-6410, April,2018,

- **Tridib Chakraborthy, Sudep Ghosh** "Remote Voting System Using Extended Visual Cryptography"International Journal of Latest Trends in Engineering and Technology.Thompsons& Reuters Researcher ID P-8024-2015. (Accepted).ISSN: 2319-3778. April,2018.

- **Suparna Karmakar, Tridib Chakraborty**, Rajarshi Saha, Nirvik Roy "Fuzzy Petri net based E-commerce System Design and Analysis"International Journal of Latest Trends in Engineering and Technology.Thompsons & Reuters Researcher ID P-8024-2015Index Copernicus, ICV - 7.39/10Index Copernicus, ICV - 77.02/100.(Accepted).ISSN: 2319-3778. April,2018.

DEPARTMENT: ECE

International Journal

- **Suparna biswas** et.al., On Prediction Error Compressive Sensing Image Reconstruction for Face Recognition, Elsevier Journal of Computer and Electrical Engineering, Accepted , article in press. Impact 1.57. August,2017.

- **Surajit Basak**, Cross Layer Optimization for Outage Minimizing Routing in Cognitive Radio Ad Hoc Networks with Primary Users' Outage Protection, Elsevier Journal of Network and Computer Application, Vol 98, pp 114-124.Aug,2017 Impact Factor 3.5.

- **Anurima Majumdar**, "A Wideband Multiband CPW Fed Wineglass Shaped Patch Antenna with Tuning Stub for 4G Wireless Communication Application",published in IJRASET - International Journal for Research in Applied Science & Engineering Technology (UGC Approved Journal, Thomson Reuter Indexed) ISSN: 2321-9653, IC Value: 45.98, SJ Impact Factor: 6.887,Jan 2018.

- **Anurima Majumdar**, "Design of a UWB Antenna Array for Ka Band Operation", Journal of Emerging Technologies and Innovative Research, (Thomson Reuter Indexed), ISSN: 2321-9653, IC Value: 45.98, SJ Impact Factor: 6.887,Jan 2018.

- **Avali Ghosh, Sisir K. Das and Annapurna Das**,"Minimization of Crosstalk in PCB",IJRASET - International Journal for Research in Applied Science & Engineering Technology (UGC Approved Journal, Thomson Reuter Indexed), Vol. 6, Issue I, January 2018, ISSN: 2321-9653, IC Value: 45.98, SJ Impact Factor: 6.887, p891-898.

- **Sunipa Roy**, Development of microcontroller based integrated gas sensor system for detecting combustible gases, IET Circuit Device and Systems (IET), DOI: 10.1049/iet-cds.2017.0243, Feb 2018.

- **Avali Ghosh, Sisir K. Das and Annapurna Das**,"Analysis of PCB to find Trace Impedance by Method of Moment and Cross-talk Interference", IJRASET - International Journal for Research in Applied Science & Engineering Technology (UGC Approved Journal, Thomson Reuter Indexed), Vol. 6, Issue II, February 2018, ISSN: 2321-9653, IC Value: 45.98, SJ Impact Factor: 6.887.

- **Avali Ghosh, Sisir K. Das and Annapurna Das**,"Interference Effects of Via Interconnect in three Layer PCB", ACES Journal, March 2018.

National Seminar / Conference

- Abhishek Shaw, Arijeet Saha, Aparajita Bhagat, **Sayan RoyChowdhury**, Design of wireless charger using piezo sensor, ASICN 2017, Dr. Sudhir Sur Engg. College, Kolkata, October 2017.

- Roma Singh, Roshan Jha, Palasri Dhar, **Dr. Sunipa Roy**, Two dimensional mobility in InP Single Quantum Well qand InAs Single Quantum well, RSA2017, Netaji Subhash Engg. College, August 2017.

- Abhishek Shaw, Arijeet Saha, Aparajita Bhagat, **Sayan RoyChowdhury**, Wireless power transmission using piezo sensor, RSA2017, Netaji Subhash Engg. College, August 2017.

International Seminar / Conference

- **Avali Ghosh**, Sisir K. Das, Annapurna Das, "Analysis of Crosstalk in High Frequency Printed Circuit Boards in Presence of Via", International Conference on Electromagnetics in Advanced Applications IEEE- APS Topical Conference on Antennas and Propagation in Wireless Communications 2017 , Verona, Italy, 11th to 15th September 2017.

- **Aditi Sengupta**, "Temperature Dependence of Microstrip Bandpass Filter For Extreme Climates", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Aditi Sengupta**, "Bandpass Filters using Multilayered Microstrip Structures", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Aditi Sengupta**, "Analysis and Design of Interactive Automated Platform", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Antara Ghosal**, "A Multi Frequency square patch antenna for mobile communication application", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Antara Ghosal**, "Design of a Multifrequency Slotted Circular Patch Antenna for Wireless Communication and Effect of", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Antara Ghosal**, "A e-Shaped Slotted Patch Antenna for Mobile Communication", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Soma Boral, Arun Kumar Mondal**, "Performance of Packet Transmission in MIMO Ad Hoc Network using Co-operative relay", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018..

- **Avali Banerjee Ghosh**, "Analysis of Multi-conductor Transmission Lines", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Anurima Majumdar**, "Design of a Multifrequency Slotted Circular Patch Antenna for Wireless Communication", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Anurima Majumdar**, "A Multi Frequency square patch antenna for mobile communication application", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Anurima Majumdar**, "A CPW fed antenna for millimeter wave applications", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Suparna Biswas**, "Face Recognition using Fusion of Spatial and Temporal features", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Palasri Dhar**, "Two dimensional mobility in Indium Phosphide (InP) single quantum well and Indium Arsenide (InAs) single quantum well : A comparative study", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

- **Dr.Sunipa Roy**, "A comparative study on Alchohol sensing Performance of ZnO nanoflower based Resistive sensor", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), 2018, 8-9 March 2018.

- **Dr.Sunipa Roy**, "A new Gated Ground Architecture for Ultre Low Leakage of 6T-SRAM cell", Emerging Trends in Electronic Devices and Computational Techniques (EDCT), Gurunanak Institute of Technology, Sodepur, Kolkata, 8-9 March 2018.

DEPARTMENT: EE

International Journal

- **Anindita Ganguly** "Solution of Volterra and Fredholm classes of equations via Triangular orthogonal function", IE(I) Springer April 2018.

- **Rikta Majumder, Sisir Mazumder,** "Microprocessor Based Digital Motor Protection Relay Model For Different Fault Conditions" IJEECS, Volume 6, Issue 12, December 2017, ISSN 2348-117X 9th dec,2017.

International Conference

- **Suman Ghosh, Prof. Dr. J K Das, Prof Dr. Chandan Kr. Chanda** "Real Value Cost Analysis of 5KWp Solar Photovoltaic Power Plant: A Case Study" 6th International Conference on Computing, Communication and Sensor Network, CCSN2017, 31st dec, 2017.

- **Rikta Majumder,Surajit Biswas, Debasis Agasti,Sukhdev Dolui** "Micro-controller Based Over Current Relay Using Hall Effect Current Sensor" International conference on Emerging Trends in Electronic Devices and Computational Techniques. , 9th March,2018.

- **Rikta Majumder, Debasis Agasti, Arpan Lahiri** "Controlling of mobile car robots using IR sensors and a tripple axis magnetometer" International conference on Emerging Trends in Electronic Devices and Computational Techniques. , 9th March,2018.

- **Anindita Ganguly** "Hybrid function based design of unidentified input observer presented at ACODS and International Federation of Automatic Control" Hyderabad, International Conference 18th-22nd Feb, 2018.

- **Anindita Ganguly**"Analysis of time-delayed non-linear equations using HF functions " ICMMSC, Indore International Conference July 2018.

National Conference

- **Susovan Dutta**" Optimal Design and Related Cost of a Renewable Energy System" NCEHTC-2017, 17-18 November,2017.

- **Rikta Majumder**, Ritam Roy, Soudip Mal, Sounak Ghosh Intelligent Energy Saving System ,FOSET, March,2018.

- **Rikta Majumder, Rohan Pal, Sourav Sarkar, Shouvik Sarma Chowdhury** "Smart Surveillance System Using Passive Infrared Sensor" FOSET, March,2018.

- **Susovan Dutta, Souvik Biswas, Purabi Majumder** 'GSM Based Fire Alarm System" FOSET, March,2018.

- **Madumita Chakroborty, Vandana Rani, Vicky Paswan, Soyel Ghosh** "Footstep Power Generation using Piezoelectric Effect" FOSET, March,2018.

DEPARTMENT: AEIE

International Seminar / Conference

- Bapita Roy, Saikat Majumder Prof. Dr. Rajib Chakraborty,"A theoretical study of the loss characteristics of a multilayer Metal/ Dielectric/ Metal Tamm Plasmon waveguide",published in International Conference on Advances in Optics and Photonics (XLI Conference of Optical Society of India),ICAOP2017,23rd – 26th Nov 2017.

- Deboleena Sadhukhan, **Jayita Datta**, Saurabh Pal, Madhuchhanda Mitra 2017,"Automated identification of Myocardial Infarction using a single Vector cardiographic feature",published in Proc. of International Conference on Modeling and Simulation - Kolkata Published by AMSE In Collaboration with IET-UK Kolkata Local Network. November 4-5, 2017.

- **Paramita Banerjee** , Ratna Ghosh, Bhaswati Goswami, "Change of length of L arm of a RFA based dentalimplant stability measuring sensor based ondominant mode of vibratio", 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

International Journal

- **Adhish Kr. Chakrabarty**,"A New Robust Model Reference Adaptive Control for Tray-Type Distillation Column",published in International Journal of Electronics, Electrical and Computational Systems,Vol.6, issue 11, pp.549-554. November 2017, UGC approved journal.

2016-17

DEPARTMENT: CSE

National Seminar / Conference

- **Ipsita Saha**, Angika Roy,Anirban Roy, Indranil Choudhury, Aradhya Kundu, Kaustav Dutta," Implementing Smart City- An Approach Towards Big Data Analysis and Internet of Things",paper accepted in 1st Regional Science and Technology Congress, 2016,NITTTR, Presidency Division West Bengal, 13th -14th November,2016, NITTTR, Kolkata.

- **Moloy Dhar, Sourish Mitra**, Kunal Singh," Implementation of Hand and Voice Biometrics Based on GMM" paper accepted in 1st Regional Science and Technology Congress, 2016,NITTTR, Presidency Division West Bengal, 13th -14th November,2016, NITTTR, Kolkata.

- **Moloy Dhar**,"Human Motion Tracking using Image Annotation Techniques, NCAISC 2017 , National Conference on Advances in Interdisciplinary Sciences-2017 will be organized on 27th-28th January, 2017 by the Science Forum in association with West Bengal State University, Bhairab Ganguly College,27.01.2017.

- Vivek Kumar, Subham Saha, Subham Vishwakarma, Suparna Dutta, Sandeep Sah, **Ipsita Saha** "A business model towards Collection and Disposal mechanism of E-Waste components", National Conference on Advance Computing, Communication and Devices'2017 (NCACCD 17) 16th– 17th March, 2017

International Seminar / Conference

- **Srabani Kundu**,"Irregular Shaped Event Boundary Estimation in Wireless Sensor Networks", 4th International Conference on Advanced Computing, Networking, and Informatics, 22-24 September, 2016.

- **Ipsita Saha**,Amit Kundu,Sadhan K Ghosh," A Study to Establish an Energy Efficient Sustainable Business Model in Virtual ERP" published in 6th International Conference on Solid Waste Management(ICONSWM2016) at Jadavpur University, organized jointly by JU, IIT KGP & IISC Bangalore. 23-27 November,2016.

- **Ipsita Saha**, Amit Kundu, Sadhan Kumar Ghosh "Novel Approach for Laptop & Cell Phone Waste Management using Cloud Based Data Storage Systems"- The Thirty-Second International Conference on Solid Waste Technology and Management, Philadelphia, PA, USA, March 19-22, 2017.

- **Ipsita Saha**, Amit Kundu Sadhan K Ghosh "A Study to Establish an Energy Efficient Sustainable Business Model in Virtual ERP", 6th International Conference on Solid Waste Management, 6th IconSWM 2016, Jadavpur University, Kolkata, India, November 24 - 26, 2016.

- **Ipsita Saha** , Amit Kundu, Sadhan Kumar Ghosh "A Study of Cloud Based Solution for Supply Chain Management" - Second International Conference on Internet of Things, Data and Cloud Computing, ICC'17, Cambridge city, Churchill College. University of Cambridge, United Kingdom. 22-23 March 2017.

- **Ipsita Saha**, Amit Kundu, Sadhan Kumar Ghosh "Role of Big Data Analysis and Internet of Things in Implementation of Smart City"-International Conference on Modelling, Computing and Technological Innovations on February 9-11, 2017, UIT, Burdwan, West Bengal.

International Journal

- **Ipsita Saha** , Joy Dewanjee," A web based nucleotide sequencing tool using BLAST algorithm" published in International Journal of Biotech Trends and Technology (IJBTT) – volume 18 Issue 1, ISSN:2249-0183**,** September - October 2016.

- **Sourish Mitra, Bidyutmala Saha, Nirupam Saha, Rafiqul Islam, Pallabi Das,**"Modified Implementation of Different Architectural Designing Issues in WSN Protocol"published in International

Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1147-1150,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

- **Bidyutmala Saha, Sourish Mitra, Srabani Kundu, Nirupam Saha, Sayani Chandra, Debraj Roy, Pallabi Das, Sinthia Roy**,"Arduino -UNO Operated Hall-effect Sensor Based Magnetic Field Strength Measurement System",published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1377-1380,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

- **Moloy Dhar,**Kunal Singh,Pritam Roy,Jui Saha,"Spontaneous Fan Speed Control System Using Arduino",published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1560-1563,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

- **Sayani Chandra, Debraj Roy,Rafiqul Islam, Shirsankar Basu, Sinthia Roy**,"A Novel Approach of Internet of Things: Microcontroller Based Air Pollution Monitoring System Published in Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162) Impact Factor:4.14 Volume 4 Issue 4 , April-2017.

- **Sayani Chandra, Sourish Mitra, Debraj Roy, Trishna Arora,**"An Approach towards Arduino Based Automated Plant Irrigation System using Soil Moisture Sensor" published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017.

- **Sourish Mitra, Sayani Chandra, Ipsita Saha, Jasbir Singh,**"An Innovative Smart Health Care System by using Internet of Things" published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017.

DEPARTMENT: IT

National Seminar / Conference

- **Sudeep Ghosh;**Recovery of 3D IC using redundant TSV; 24th West Bengal State Science & Technology Congress,2017.

- Raja Dastidar, **Baisakhi Das;** Inspiration of vertical transportation on multilayered architecture of lab-on-chip: a hybrid approach; 24th West Bengal State Science & Technology Congress,2017.

International Seminar / Conference

- **Baisakhi Das**, Supreeti Kamilya, Biplab K Sikdar; "Design of CA Based Scheme for Evenhanded Data Migration in CMPs"; 6th Int'l Symp. on Embedded computing & system Design (ISED), December 15-17, 2016; IIT Patna.

- **Sudeep Ghosh,** Mandira Banik,Prebond"TSV Based 3D-SIC Testing" International Conference on Current Research in Engineering Science and Technology (ICCREST-2017). ISSN-2321 – 3361Mar 13-14-6, 2016. Trichy, Chenni.

- **Tridib Chakraborthy, "**Visual Cryptography for Information Reconstruction" International Conference on Current Research in Engineering Science and Technology (ICCREST-2017). ISSN-2321 – 3361Mar 13-14-6, 2016. Trichy, Chenni.

International Journal

- **Trishita Ghosh,** Sumit Kumar Singh; Congestion Control in VANET with Time Synchronization Approach and by Controlling Number of Messages. International Journal of Emerging Technologies in Engineering Research (IJETER). Volume 4, Issue 7, Page 13-16, impact factor 4.225, July 2016.

- **Sudeep Ghosh,** Mandira Banik**, Tridib Chakraborty "Recovery of TSV Based 3D IC"** International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE.2017.

- Mandira Banik, **Sudeep Ghosh "**Modelling of Air traffic control using Petrinet." International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE.2017.

- Mandira Banik, **Sudeep Ghosh "**Approximate Computing: Error Tolerant Adder." International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE.2017.

- **Tridib Chakraborty, Mizan Chowdhury,** "Image Segmentation in Optical Character Recognition" International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE, 2017.

- **Mizan Chowdhury, Tridib Chakraborty** "Text Recognition Using Image Processing" International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845, UGC enlisted. (Registrar for published in JUNE, 2017.

- **Tridib Chakraborty,**Adrish Goswami, Aliva Ghosh, Jeevan Krishna "Monitoring Suspicious Discussions on Social Media Case Study" International Journal of Advanced research in computer science, ISSN/ISBN No-0976-5697. Impact factor-5.845,UGC enlisted.(Registrar for published in JUNE.2017.

DEPARTMENT: FT

National Seminar / Conference

- Ushnil Dutta, Sanjana Chakraborti and **Dr. Subhajit Ray, "**Development of Value Enriched Carrot Fortified Chips for Better Security of Nutrition" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept,2016.

- Soumyadeep Pal, Anusree Modak, **Dr. Kakali Bandyopadhyay and Dr. Chaitali Chakraborty "**Food Waste: Mine of Polyphenols" UGC-Sponsored National Level Seminar on Food Security And

Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016.

- **Dr. Anju Paul,** Mainak Ghosh and Manasi Roy. "Preservation Techniques & Product Development of Locally Available Mushrooms" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016.

- Neelanjana Misra, Gargi Sharma, **Dr. Chaitali Chakraborty and Dr. Kakali Bandyopadhyay "**Herbal Bread: A Loaf For Good Health" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16thSept.,2016..

- Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee. **Dr. Chaitali Chakraborty and Dr. Kakali Bandyopadhyay "**Utilization of Green Banana Peel in Enriching the Antioxidant Potential in Chips" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept., 2016.

- Shramana Bhattacharya, Sreemoyee Moitra, Sayani Adhikary and **Dr. Chaitali Chakraborty "**Development of Probiotic Lassi Supplemented with Aloe Barbadensis Miller Juice and Effect" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016.

- Sruti Mandal, Saikat Gorai and **Dr. Subhajit Ray.** "Development and Evaluation of Quality Characteristics of Nutritious Osmodried Fruits for enhanced Nutritional Security" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with

Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016.

- Gargi Sharma and **Chaitali Chakraborty**, "Delopment and quality analysis of pudina fortified herbal custard", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Sreemoyee Moitra, Sayani Adhikary and **Chaitali Chakraborty**, "Effect of incorporating Aloe-vera in Sandesh", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Suparna Mukherjee, Srijanee Biswas and **Chaitali Chakraborty,** "Rheological analysis of apple yoghurt", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Urmi Sarkar, Shreosi Das and **Chaitali Chakraborty**, "Rheological analysis of coffee flavored Yoghurt", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Pinaki Ranjan Ray, Soma Maji and **Chaitali Chakraborty, "**In vitro evaluation of phenolic content and antioxidant activity of herbal *lassi",* National Symposium on Oxidative stress in health and disease, organized by Department of Biochemistry & Biophysics, University of Kalyani, West Bengal, India, held on 30-31st March, 2017.

- Neha Jaiswal, Shalini Rastogi and **Kakali Bandyopadhyay**, "Genetically Modified Foods: Safety, Risk, and Public Concerns",8th All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Prostuti Chakravorty, Debarati Bhattacharyya and **Kakali Bandyopadhyay**, "Studies on Extraction of Protein from De-oiled Meals", 8th All India Inter Engineering College Academic Meet-2017& Innovative

Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Anusree Modak and **Kakali Bandyopadhyay**, "Studies on Extraction of Polyphenol from Cucumber and Potato Peels", 8th All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Paromita Roychowdhury, Aayushi Bhomia and **Kakali Bandyopadhyay**, "Study of Utilization of Ultrasound in Milk and Milk Product"**,** 8th All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Bigroha Hajra, Soumyadeb Bhattacharyya &**Dr. Anju Paul** "Modern Trends on Utilization of Food Technology" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017

- Sreyasi Deb &**Dr. Anju Paul** "An Enzymatic Approach For Debittering of Citrous Fruit Juice" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Mahua Sarkar, Saurav Bhattacharjee &**Dr. Anju Paul**" New Horizons in Agricultural Biotechnology" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.
- Ansu Chaudhary, Pinki Karmakar &**Dr. Anju Paul** " Review: Genetically Modified Foods: Blessing or Curse" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Manasi Roy, Mainak Ghosh &**Dr. Anju Paul** "Development of Mushroom Product: A Meat Substitute", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Abhishek Kundu, Poulomi Mukherjee &**Dr. Subhajit Ray**, "Thermosonication a Suitable Approach of Alternative Processing", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Prajesh Nandy, Subhapriya Samanta &**Dr. Subhajit Ray**,"Microalgae as a Source of Natural Antioxidant", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Rupsha Roychowdhury, Modhulika Dutta &**Dr. Subhajit Ray**, "Algae is a source of Biofuel", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- Sanjana Chakraborty, Ushnil Dutta &**Dr. Subhajit Ray**, "Development and Analysis of a Nutrient Enriched Tropical Fruit Concoction", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

National Journal

- **Amit Kumar Barman, Subhajit Ray, Kakali Bandyopadhyay, Anju Paul and Chaitali Chakraborty**,"Evaluation of Nutritional Characteristics and Microbiological Quality of Soymilk and Peanut Powder Blend"Accepted, Journal of InterAcademia,Vol.20,Issue Jul/Aug (2016), pp-246-250, ISSN:0971-9016, (NAAS Rating: 3.96)

- **Dr. Subhajit Ray** and Dr. Kanta Bokaria**,** "Characterizing Soil Induced Variation of Arsenic Uptake in Rice Journal of Agricultural Engineering and Food Technology", Vol.3, Issue 3, July-September, (2016), pp.172-177,p-ISSN:2350-0085,e-ISSN:2350-0263

- Priyanka Dutta, **Chaitali Chakraborty, Kakali Bandyopadhyay, Anju Paul and Subhajit Ray,** "Developmemt and characterization of curd fortified by pineapple juice" Indian journal of Dairy Science,Vol.69,Issue 5, Sep/Oct(2016),pp- 524-528, ISSN:0019-5146 (NAAS Rating: 4.19)

- **Chaitali Chakraborty, Amit Kumar Barman,Kakali Bandyopadhyay**, "Survey of Unorganized Sector Milk in and around Kolkata", *J. Interacademicia*, 20(4) 541-545 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

- **Kakali Bandyopadhyay**, **Chaitali Chakraborty** and Smita Singha Roy, "Effect of Heat Treatment on the Rheological Properties of Pulse Based Cabbage Soup", *J. Interacademicia*, 20(4) 515-519 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

- **Chaitali Chakraborty,Kakali Bandyopadhyay,** Shubham Mukherjee and Bornini Banerjee,Development and Quality Analysis of Milk Based Eggless Pudding, *J. Interacademicia*, 20(4) 520-525 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

- Kailash Barman, **Chaitali Chakraborty** and **Subhajit Ray,** "Studies on the process development for the production of locally available pineapple products", *Journal of Interacademicia*, 20(4), 508-514, (2016). ISSN: 0971-9016. (NAAS Rating: 3.96).

- **Chaitali Chakraborty**, Bornini Banerjee, Soumyadeep Pal, Subham Mukherjee, Lara Maity, Soumyadeb Bhattacharyya, Bigraho Hajra and Subhopriya Samanta, "Food safety challenges towards safe, healthy and nutritious street foods", *Journal of Interacademicia*, 20(4), 499-507, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).

- **Chaitali Chakraborty**,Prastuti Chakravorty, Riya Dasgupta, Suravi Chakravorty, Rupsa Roychowdhury and Debjit Ghosh, "Sweet Potato:Processing and Marketing: A Review", *Journal of Interacademicia*, 20(4), 562-568, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).

- **Kakali Bandyopadhyay** Sampurna Guhathakurta and **Chaitali Chakraborty, "**Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm *(Phoenix dactylifera* L.)". *Indian Journal of Dairy Science*, **70**(1):116-118, (2017). ISSN:0019-5146, (NAAS Rating: 5.26)

- **Chaitali Chakraborty**, **Kakali Bandyopadhyay** and Shairee Ganguly, "Studies on Extraction and Characterization of Biocolour from Beet Root (*Beta vulgaris*)", *Advances in Life Sciences*, 5(21):10150-10152, (2016) ISSN 2278-3849 (NAAS Rating: 3.56).

International Seminar / Conference

- Anusree Modak, Neelanjana Misra, **Chaitali Chakraborty and Kakali Bandyopadhyay, "**Herbs Fortified Whey Drink", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Smita Singha Roy, Soumyadeep Pal, **Kakali Bandyopadhyay and Chaitali Chakraborty** (2016). "Effect of Heat Treatment on the Functional Characteristics of Pulse based Tomato Soup", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Soumyadeep Pal, Gargi Sharma, **Kakali Bandyopadhyay and Chaitali Chakraborty** (2016). "Preparation and Characterization of Salt Extracted Sesame (*Sesamum indicum* L.) Protein Isolate", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Bornini Banerjee, Subham Mukherjee, Arunima Mukherjee, **Chaitali Chakraborty andKakali Bandyopadhyay** (2016). "Utilization of Banana Peel as a Functional Ingradient in Chips Preparation", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Sayani Adhikary, Sanchita Mukherjee, **Chaitali Chakraborty andKakali Bandyopadhyay** (2016). "Quality Analysis of Raw and Packaged Milk of Kolkata", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Saikat Gorai, Sruti Mondal, and **Subhajit Ray** , "Development and Utilization of Carrot Powder in Value Added Biscuit Production", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Ushni Dutta , Sanjana Chakraborty and **Subhajit Ray,** "Effect of Drying of Cucumber at Different Temperatures on Drying Characteristics and Physicochemical Properties", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Subhojit Singha , Chandrima Sarkar, Sukriti Dutta and **Subhajit Ray**, "Potentiality of Polymers in Food Packaging", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Chandrani Duttaand **Dr. Anju Paul, "**Comprehensive Study on the Antioxidants and Proximate Analysis of Fruits Vegetables", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Sukanya Kar, Dipsikha Mukherjee, Sreemoyee Moitra and **Dr. Anju Paul**, "Development of Value Added Biscuits Fortified by Whey Protein", **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- Manasi Roy, Mainak Ghosh and **Dr. Anju Paul,** "The Essence of Life – Aloe vera(Preparation of Pickle from Aloe vera)" **International Conference on Emerging Technologies in Agricultural and Food Engineering (ETAE 2016),** organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Dr. Anju Paul, Dr. Subhajit Ray** and Bigroha Hajra,"Analysis and Study on the Anti-oxidant of Citrus Fruits" , **International Seminar on Contemporary Developments in Nutritional Research** Organised

by IQAC and Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College, held on 5th and 6th January 2017.

Interational Journal

- **Chaitali Chakraborty**, Shramana Bhattacharyya, Sreemoyee Moitra and **Kakali Bandyopadhyay** (2017).Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Review, **International Journal of Engineering Research and Science & Technology,6**(1): 114-125, ISSN 2319 – 5991, **Impact Factor**:1.09.

- **Chaitali Chakraborty**, Arunima Mukherjee, Bornini Banerjee, Subham Mukherjee and **Kakali Bandyopadhyay** (2017). Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development: A Review, **International Journal of Engineering Research and Science & Technology,6**(1):1-12, ISSN 2319 – 5991, **Impact Factor**:1.09.

- **Chaitali Chakraborty**, Gargi Sharma and Neelanjana Misra, (2017). Herbs fortified food - Key of Polyphenols: a Review**, International Journal of Engineering Research and Science & Technology**, **6**(1): 18-29, ISSN 2319 – 5991, **Impact Factor**:1.09.

- **Chaitali Chakraborty**, Riya Dasgupta and Debjit Ghosh, (2017). Climatic conditions required and factors affecting the production of sweet potato,**International Journal of Agricultural Science and Research**, **7**(1): 459-464, ISSN-2250-0057 (NAAS Rating: 4.13), **Impact Factor:** 4.8136.

- **Kanta Bokaria** and **Subhajit Ray**, Development of papaya peel flour based cookies and evaluation of its quality, **Journal of Multidisciplinary Engineering Science and Technology (JMEST)** ISSN: 2458-9403 online) Vol. 3 Issue 12, December – 2016,pp.6393-6396

- **Chaitali Chakraborty** and **Kakali Bandyopadhyay,** "Textural Analysis of Spongy Indian Milk Dessert (Rasogolla) Fortified with Potato Powder", International Journal of Current Microbiology and Applied Sciences ,6(4): 2414-2420, (2017).ISSN: 2319-7706 (NAAS Rating: 5.38)

- **Shairee Ganguly, Chaitali Chakraborty and Kakali Bandyopadhyay,** "Development and Characterization of Biocolour (*Beta vulgaris*) Enriched Low Calorie Lassi (Yogurt Based Beverage)",

International Journal of Current Microbiology and Applied Sciences,6 (4): 2265-2270, (2017) ISSN: 2319-7706 (NAAS Rating: 5.38)

- **Chaitali Chakraborty**, **Kakali Bandyopadhyay**, Bornini Banerjee and Shubham Mukherjee, "Banana peel wastes: potential source of antioxidant in banana chips", International Journal of Agricultural Science and Research (IJASR), **7**(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; **Impact Factor (JCC)**: 4.8136; (NAAS Rating: 4.13); IBI Factor: 3.2

DEPARTMENT: ECE

International Seminar / Conference

- **Dr.Sunipa Roy**,Rashmi Sinha,Shambhavi,Seuli Maity,"TEM Analysis of Zero Silicon Micro Hot-plate for Gas Sensing Application" published in 3rd International Conference on Microelectronics, Circuits and Systems Micro-2016,9-10th July, 2016

- **Dipasri Saha**,Kumar Ankit,Manish Kumar,Manoj Kumar Rawani,Binod Kumar,"A Mobile Operated ROBOT using DTMF Decoder & Motor Driver",3rd International Conference on Microelectronics, Circuits and Systems Micro-2016,9-10th July, 2016.

- **Suparna Biswas**, Aditi Bhowmik, Arka Chakraborty, Monalisa Debnath, Arnab Chatterjee, "Face Recognition using Spatial and Temporal features",3rd International Conference on Microelectronics, Circuits and Systems,Micro-2016,9-10th July, 2016

- **Arun Kumar Mondal and Soma Manna**,"Optimal Path Selection for AODV Routing Protocol in MANET",IEEE and CRC Press with Taylor & Francis Grouu sponsored Internationa Conference ACCET 2016 Accepted,21ST and 22nd OCTOBER 2016

- **SuparnaBiswas,**"An Efficient Face Recognition Method via Compressive Sensing",1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016),Accepted on 19-20 October,2016

- **Dipasri Saha**,"Implementation of MPPT Method using BBO Algorithm for PV Generation System",1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016),Accepted on 19-20 October,2016

- **Avali Ghosh, Sisir K. Das, Annapurna Das**,"Analysis of Radiation Coupling from Via in Multilayer Printed Circuit Board Traces",14thInternational Conference on Electromagnetic Interference & Compatibility (INCEMIC 2016) and Workshop at Bengaluru, India accepted ,8th to 9th December 2016

- **Soma Manna, Arun Kumar Mondal and Piyu Sarker**,"Study of security threats in ad-hoc network and their mitigation",International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE - 2016) 4-6 October, 2016

- **Antara Ghosal,Anurima Majumdar , Sisir k Das,Annapurna Das,**"Design of Ground plane of a slotted microstrip Patch antenna for EMI rejection",14thInternational Conference on Electromagnetic Interference & Compatibility (INCEMIC 2016) and Workshop at Bengaluru, India accepted,8th to 9th December 2016.

- **Avali Ghosh, Sisir Kumar Das, Annapurna Das**,"**Analysis of Crosstalk in High Frequency Printed Circuit Boards"**,accepted on International Conference on Electromagnetics in Advanced Appplications IEEE- APS Topical Conference on Antennas and Propagation in Wireless Communications,2017,published date- September 11-15,2017.

- Suparna Biswas**,"PCA based Face Recognition in Curvelet Compressive Measurements"**,published in First International Conference on Computational Intelligence, Communications, and Business Analytics,March 24-25,2017.

- Aditi Sengupta et.al., Effects of temperature on Microsrip circuits for extreme climates (ICTPACT-2017), 6th -8th April,2017 Bharat Institute of Higher Education, Bangalore, India.

International Journal

- Sunipa Roy et.al**."Development of microcontroller based integrated gas sensor system for detecting combustible gases"**,published in IET Circuit Device and Systems (IET). Communicated.Peer reviewed archival journal Thomson Reuter indexed. IF: 0.583

- **SuparnaBiswas, "A Compressive Sensing Based Robust Face Recognition Method",** Advances in Industrial Engineering and Management, American Scientific Publishers, Vol 6, pp. 103- 106, 2017,(**THOMSON REUTERS**) DOI: 10.7508/aiem.2017.02.008.

DEPARTMENT: EE

International Seminar / Conference

- **Mr. Arindam Roy, Dr. Prabal Deb, Ms. Madhumita Chakraborty**."Alcohol Sensor Based Cost Effective Simple Car Ignition Controller"", 2016 first International conference on Advancement of Computer Communication and Electrical Technology (ACCET, 2016) ,Sept, 2016

International Journal

- **Mr. Susovan Dutta,"**Cost Effective Multi-Purpose Solar Charger Unit for Rural Development,International Journal of Computer Sciences and Engineering August 2016

- **Mr. Susovan Dutta**, "Magnetically actuated transport of ferrofluid droplets over micro-coil array on a digital microfluidic platform"Elsevier,Sensors and Actuators B:Chemical,Volume 236, Pages 1-1132 (29 November 2016).

- **Dr. J K Das** and Debnil Chakraborty,"Effective Management of Transformer Inrush during Restoration of a Typical Industrial Power System"published in International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (An ISO 3297: 2007 Certified Organization) Vol. 6, Issue 2, February 2017 Copyright to IJAREEIE DOI:10.15662/ IJAREEIE.2017.0602016 801

- **Suman Ghosh** , Soumik Roy, "Designing a Dual-Axis Solar Tracking System for increasing efficiency of a Solar Panel", International Journal of Advanced Research in Electrical, Electronics and

Instrumentation Engineering(IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 12, December 2016.

- Bikram Dutta, **Suman Ghosh**, "Mathematical MATLAB Model and Performance Analysis of Asynchronous Machine ", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization), Vol. 6, Issue 4, April 2017.

- **Mr. Arindam Roy, Mr. Sisir Mazumder** "Design of micro/mini-wind-turbine(MWT) based Uninterrupted Power Supply(UPS) for domestic applications". International Journal of Innovations in Engineering and Technology (IJIET), ISSN: 2319-1058, February, 2017.

DEPARTMENT: AEIE

International Conference

- **Jayita Datta,** Madhuchhanda Mitra, "Automated Feature Extraction of ECG Signal by Position-Index Searching Method", IEEE–International Conference on Signal Processing, Communication, Power and Embedded System (SCOPES-2016) Technically Co-sponsored by IEEE Bhubaneswar Section on 03-05,October, 2016

- **Paramita Banerjee**,Ratna Ghosh and Bhaswati Goswami," Impedance model of a piezoelectric sensor derived from experimental responses", 1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016), organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the

Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20th October, 2016.

- **Bapita Roy, Paramita Banerjee,** Shubham Debnath, Satarupa Chakraborty and Anirban Chakraborty, "Design of a Microcontroller Based Potentiometric Level Sensor", 1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016), organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20th October, 2016.

- **Jayita Datta*,** Sukanta Saha, Sayantan Chowdhury and Aditya Acharya, "Development of An ECG Signal Acquisition Module", 2nd International Conference on "2017 Devices for Integrated Circuit (DevIC)", organized by IEEE KGEC Student Branch Chapter in association with Department of ECE, KGEC, technically co-sponsored by IEEE EDS Kolkata Chapter during March 23-24, 2017.

International Journal

- **Paramita Banerjee**, Abhijit Chakraborty, Ratna Ghosh and Bhaswati Goswami, "Predicting the dental implant stability based on the antiresonance phase of a piezo based impedance sensor", Journal of International Clinical Dental Research Organisation, Accepted and will be published in Jnuary 2017 edition,*ISSN*: Print -2231-0754 , Online - 2231-5357, Indexed with index Copernicus, Indian Science Abstracts.

- **Bapita Roy, Paramita Banerjee, Subham Debnath, Satarupa Chakraborty, and Anirban Chakraborty**,"Microcontroller Based Automated Water Level Sensing",Journal of Advances in Industrial Engineering and Management has been communicated,ISSN: 2222-7059 (Print);EISSN: 2222-7067,2016

- **Paramita Banerjee, Ratna Ghosh and Bhaswati Goswami,"**Series Impedance Model of a Piezoelectric Sensor based on Antiresonance Frequency (ARF) analysis",Journal of Advances in Industrial Engineering and Management,has been communicated,ISSN: 2222-7059 (Print);2016,EISSN-2222-7067

DEPARTMENT: ASH

National Seminar / Conference

- **Sreyasree Basu**,"Preparation and evaluation of application of the Novel Calcium cross linked Carboxymethylguargum Ion Exchange Resin for Heavy Metal Removal in Surface Water",1st Regional Science and Technology Congress, 2016 by DST, Govt. of WB in collaboration with NITTR.November, 2016

- **Mainak Debnath and Sreyasree Basu,"**Mononuclear Vanadium(V) complex with Phenol based Ligands: Synthesis, Characterization and Catalytic activities",1st Regional Science and Technology Congress, 2016 by DST, Govt. of WB in collaboration with NITTR. November, 2016

- **Piyali Adak and Shyamal Kumar Chattopadhyay**,"Catecholase activity, DNA binding and cyto toxicity studies of a water soluble binuclear Cu(II) complex of pyridoxal Schiff base."1st Regional Science and Technology Congress, 2016 by DST, Govt. of WB in collaboration with NITTR.November, 2016

- **Piyali Adak,** "Two pseudohalide-bridged Cu(II) complexes bearing the anthracene moiety: Synthesis, crystal structures and catecholase-like activity". Presented a paper at the Research Scholars Colloquiun (RSC 2016) during August 23-24, 2016 at IIEST, Shibpur.

- **Rajarshi Chakraborty** and Ratan Mandal, ‘’A New Approach of Solar Thermal Steam Generator Design’’ATE Paper No.40, Presented Paper at National Conference on Advances in Thermal Engineering during September 23-24, 2016, Jadavpur University, Kolkata, India

- **Dr. Soma Mukherjee** “Effect of electric field on SHG Signal of Chromophore doped Polymer Thin Film”, Two days National Conference on Advances in Interdisciplinary Sciences 2017 organized by Science Forum, Bhairab Ganguly College held during 27-28th Jan 2017

National Journal

- **Dr. Soma Mukherjee**:"Study of temperature dependent dc conductivity of $Fe_{1-x}Co_xO_y$ film grown on MgO (100)", Proceedings of National Conference on Advancement in Frontier Physics : From 20th Century to the present NCAFP- 2016, p-23-26.

International Seminar / Conference

- **Dr. Soma Mukherjee** "SHG signal of poled nonlinear optical DR1-doped PMMA film", Accepted for 104th Indian Science Congress organized by SRM University, Chennai, to be held during 3-7th Jan 2017

- **Dr. Sucharita Bhattacharyya**,"Solid Waste Management (SWM) : Case Study at an Educational Campus and in the neighbourhood of Panihati , North 24 Pargana, West Bengal, India"Abstract accepted,6th Icon SWM 2016, November 24-26, 2016 at Jadavpur University, Kolkata, India, to be held during November 24-26, 2016

- **Sreyasree Basu and Mainak Debnath,** "Structural Vagary of the Guar Gum: Owing to the Water Crystallization Inhibition Property". Awarded as the best paper presentation (Id: IC2A2SE-2016-07-CCE-07) in track Chemistry & Chemical Engg. in International Conference on Computational Advancement in Applied Science and Engineering (IC2A2SE-2016) from Oct 4-6, 2016, organized by Narula Institute of Technology, Agarpara, Kolkata.

- **Anup Kumar Thander, Dr. Sucharita Bhattacharyya**,"Optimization of Structure Parameters of a Rib wave guide using Optical Modal Index analysis through Higher Order Compact FDM-IEEE UPCON 2016,(IEEE Conference),Accepted 2016 Nov.

- **Mr. Anup Kumar Thander & Dr. Sucharita Bhattacharyya**,"Newton-Krylov Subspace Method to study Structure Parameter Optimization in Rib Wave Guide Communication",International Conference on Industry Interactive Innovation in Science, Engineering and Technology (I3SET2016)published in October 2016 in Springer Publication.

- **Mr. Anup Kumar Thander & Dr. Sucharita Bhattacharyya**,"Study of Optical Modal Index for semi conductor rib wave guides using Higher Order Compact Finite Difference Method",Optik - International Journal for Light and Electron Optics- An Elsevier Journal

- **Rajarshi Chakraborty** and Ratan Mandal ‘’Design and Optimization of Conceptual Solar Thermal Steam Generator’’ Abstract Accepted for International Conference on Energy Options for Tomorrow: Technology to Sustainability (ICEOT 2017)Science City Kolkata India Organised By: The Neotia University, West Bengal, India to be held during 17-19, April 2017 .

- **Piyali Adak**, “Tetra and dinuclear Zinc(II) complexes with thiolato bridges: Synthesis, X-ray Crystal Structures, Spectroscopic Characterization, ATP binding, DNA binding and Phosphatase like activity”. Presented a paper at 5th Symposium on Advanced Biological Inorganic Chemistry (SABIC 2017) held in Kolkata during January 7-11, 2017, organized by IACS and TIFR.

International Journal

- **Chinmay Ghosh**, “A note on relative (p, q) th proximate order of entire functions” Journal of Mathematics Research; Vol. 8, No. 5; Oct. (2016), pp. 1-11. ISSN 1916-9795(Print) ISSN 1916-9809 (Online)

- **Chinmay Ghosh**, “Generalized Relative Order-Dependent Growths of Composite Entire Functions” (accepted for publication at Communications of the Korean Mathematical Society) (SCOPUS indexed)

- **Chinmay Ghosh**, “On Relative (p; q)-th Order Based Growth Measure of Entire Functions”, Filomat 30:7 Aug. (2016), pp. 1723-1735. ISSN 0354-5180 (Print) ISSN 2406-0933 (Online). DOI 10.2298/FIL1607723D.(SCI indexed) (impact factor 0.638)

- **Anup Kumar Thander, Dr. Sucharita Bhattacharyya**,“ Study of optical modal index for semiconductor rib waveguides using higher order compact finite difference method”, Optik, (an Elsevier Journal) , Vol. 131, pp.775-784, February 2017

- **Piyali Adak**, "Two pseudohalide-bridged Cu(II) complexes bearing the anthracene moiety: Synthesis, crystal structures and catecholase-like activity". Polyhedron, Vol. 119, Aug. (2016), pp. 39-48, ISSN: 0277-5387 (impact factor: 2.108).

- **Piyali Adak**, "Catecholase activity, DNA binding and cytotoxicity studies of a Cu(II) complex of a pyridoxal schiff base: synthesis, X-ray crystal structure, spectroscopic, electrochemical and theoretical studies". RSC Adv., Vol 6, Aug. (2016), pp. 86851-86861, ISSN: 2046-2069 (impact factor: 3.289).

- **Piyali Adak**, "Vanadium(V) complexes of some bidentate hydrazone ligands and their bromoperoxidase activity." Polyhedron, In Press, Accepted Manuscript,http://dx.doi.org/10.1016/j.poly.2017.01.054, ISSN: 0277-5387 (impact factor: 2.108)

- **Piyali Adak**, "Ruthenium(II) complexes of thiosemicarbazones: Synthesis, X-ray crystal structures, spectroscopy, electrochemistry, DFT studies and fluoride sensing properties." Inorganica Chimica Acta, Vol. 459, Jan. (2017), pp. 1-14, ISSN: 0020-1693 (impact factor: 1.918).

2015-16

DEPARTMENT: CSE

International Seminar / Conference

- **Mrs. Srabani Kundu:"Low latency event boundary detection in wireless sensor networks "**In Proceedings of Nineth IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS) Sponsored by IEEE Communications Society,2015(15TH Dec,2015 - 18th Dec,2015)

- **Ipsita Saha**,Amit Kundu,Sadhan K Ghosh "Adoption of Enterprise System in the SME Sector of India-A Conceptual Study"- International Conference on E-Business and Supply Chain Competitiveness(EBSCC 2016) at IIT,Kharagpur, 12-14 Feb,2016

- **Mandira Banik**,"Railway Signalling System using Petrinet (3 ways)", published in International Conference on Current Research in Engineering Science and Technology, June 2016

International Journal

- **Sandip Tigga, Nirupam Saha, Sourish Mitra:" Microcontroller Based Magnetic Field Strength Measurement System"**accepted in International Journal of Engineering Development & Research,ISSN:23219-939,Volume 4,Issue 2,impact Factor:3.97,April,2016.

- **Sayani Chandra,Bidyutmala Saha,Rafiqul Islam,Sourish Mitra:" A Relative Survey on Wireless Mobile Technology"**published in International Journal of Advanced ResearchIn Computer Science & Software Engineering,[ISSN(Online): 2277 128X][ISSN(Print): 2277 6451], Volume 4,Issue 2,impact Factor:2.5,April,2016.

- **Pallabi Das, Rafiqul Islam, Nirupam Saha,Sourish Mitra,Sayani Chandra:"Association Rule Mining for Gene Expression Data A Neural Network Approach"** published in International Journal of Engineering Trends and Applications,IJETA ,Vol 3 Issue 2,ISSN 2393-9516,ISO 3297:2007,April 2016

- **Sourish Mitra,Sandip Tigga,Anirban Roy: "Microcontroller Based Universal Asynchronous Receiver Transmitter (UART) Communication System"** accepted in International Journal of Engineering Development & Research,ISSN :2321-9939,Volume 4,Issue 2,Impact factor: 3.97, April 2016

- **Sandip Tigga,Sourish Mitra,Angika Roy, :"Internet of Things(IOT) based Smart Health Care System"**acceptedin International Journal of Engineering Development &Research ISSN:2321-9939, Volume 4,Issue 2,Impact factor: 3.97, April 2016

- **Bidyutmala Saha, Nirupam Saha, Swatilekha Saha: "Discrete Cosine Transform based Steganographic Approach Using JPEG Quantization Table"** acceptedin International Journal of

Engineering Development & Research,ISSN :2321-9939,Volume 4,Issue 2,Impact factor: 3.97, April 2016

- Bidyutmala Saha, Nirupam Saha, Swatilekha Saha:"A Novel Approach: Architecture Based Various Designing Issues on Wireless Sensor Network Environment",accepted inInternational Journal of Engineering Development & Research ISSN:2321-9939, Volume 4,Issue 2,Impact factor: 3.97, April 2016

- **Debraj Roy, Sourish Mitra, Sayani Chandra:"A Cryptographic Approach Depending Upon Destination Coordinate Location for GPS Receiver",**accepted inInternational Journal of Engineering Development & Research ISSN:2321-9939, Volume 4,Issue 2,Impact factor: 3.97, April 2016.

- **Moloy Dhar, Sourish Mitra, Sandip Tigga:" Identification of Human image using Cascade object detector method" ,**acceptedin International Journal of Engineering Development & Research ISSN:2321-9939, **Volume 4,Issue 2**, ,Impact factor: 3.97, April 2016

- **Moloy Dhar, Reyad Hossain: "Implementation of Hand biometrics on mobile devices"** published in Gurukul International Multidisciplinary Research Journal, ISSN:2394-8426, **Volume 6, Issue 2**, Volume,Impact factor: 2.254, March 2016

- **Sayani Chandra, Suparna Karmakar,:"A Well-Formed Petri Net Based Modelling Approach for Emergency Situation handling in Hospital"** published in International Journal of Innovations in Engineering and Technology (IJIET), ISSN: 2319-1058,Impact factor: 0.672 Volume 6, Issue 4 - April 2016

- **Bidyutmala Saha, Rafiqul Islam "An Accident Prevention Technique For Speed Bumper Detection Through IR"** published in IOSR Journal of Computer Engineering (IOSR-JCE),ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 18, Issue 2, Impact factor: 1.231,March 2016

- **Rafiqul Islam, Shirshankar Basu, Supriya Das:"Encryption Key Generation by Using Biometric approach in Secure Data Packet Transfer**",accepted in International Journal of **Engineering Development & Research, ISSN:2321-9939, Volume 4,Issue 2,Impact factor: 3.97, April 2016.**

- **Moloy Dhar, Sandip Tigga, Shirshankar Basu, Pallabi Das:"Mood detection of Human image using human-computer interaction method"**acceptedin International Journal of Engineering Trends and Applications,IJETA ,Vol 3 Issue 2,ISSN 2393-9516,ISO 3297:2007,Impact factor: 1.81,April 2016

- **Sinthia Roy**, **"Arithmetic Of Fifth Generation Computer"** published in ComputerInternational Research Journal of Engineering and Technology, March, 2016.

- **Sraboni Kundu, Debraj Roy**,"Heterogeneous Multihop Wireless Networks Based on Srr and Bar Routing Protocols", published in International Journal of Research in Advanced Engineering Technology, April 2016, Impact factor-3.9.

DEPARTMENT: IT

International Seminar / Conference

- Prabhakar Kumar, Hardip Singh Kataria and **Trishita Ghosh**: **"Congestion control approach by reducing the number of messages in VANET"** 4th International Conference on reliability, infocom technologies and Optimization (ICRITO 2015), September 2-4, 2015.

- **Tridib Chakraborty, Mizan Md Chowdhury:"Minimization of Cost requirement in different OLAP Technology"** International Conference on Current Research in Engineering Science and Technology (ICCREST-2016) ISSN 2321 – 3361.May 2016, Page-619,Trichy,Chenni.

- **Sudeep Ghosh, Mandira banik, Pramit Karmakar**: "**Prebond TSV Based 3D-SIC Testing"** International Conference on Current Research in Engineering Science and Technology (ICCREST-2016). ISSN 2321 – 3361.May 4-6, 2016. Trichy,Chennai.

- **Mandira banik, Sudeep Ghosh, Krishendu Dutta :**"**Railway Signaling System Using Petri Net (3 Ways)"**International Conference on Current Research in Engineering Science and Technology (ICCREST-2016). ISSN-2321 – 3361May 4-6, 2016. Trichy, Chennai.

- **Chowdhury Md Mizan, Sreya Bhattarcharya"NEXT GENERATION SEQUENCING TECHNOLOGY"**International Conference on Recent Trends in Engineering and Technology (ICRTET-2016) on May 15th, 2016 Bengaluru, India.

International Journal

- **Tridib Chakraborty**, **Mizan Md Chowdhury**, **"Remote Voting System Using Extended Visual Cryptography"**, International Journal of Science and Research (IJSR) Index Copernicus Value (2013): 6.14 , ISSN (Online): 2319-7064, Volume 4 Issue 9, Sept,2015.

- **Baisakhi Das, Biplab K Sikdar, "Exploring the Impact of Fault on CMPs' Power for Diagnosis of Faulty Module:"** Journal of Parallel and Distributed Computing, Elsevier . (Communicated).

- **Baisakhi Das, Biplab K Sikdar**,**"Design of CA based data Migration for Chip Multiprocssors"** Journal of Microproessors and Microsystems, Elsevier.(Communicated).

- **Tridib Chakraborty , Nilakshee Chakraborty"A novel Cryptography Scheme for Secret Recovery"** International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064,Impact factor-6.3. vol-7, issue-6 Page-1204,May,2016.

- **Sudeep Ghosh, Mandira Banik"Modelling of Metro railway signaling using petri net"** International Journal of Advanced research in Computer and Communication Engineering (IJARCCE), ISSN (online)-227-1021,ISSN (Print) 2319-5940. Impact Factor- 5.332 issue 4 Vol-7 July, 2015.

- **Suparna Karmakar, Sayani Chandra "A well-Formed petri Net Based Modeling Approach for Emergency Situation handling in Hospital"** International Journal of Innovations in Engineering and Technology (IJIET), volume 6, Issue 4,April,2016 ,ISSN: 2319 – 1058 Page no:651-657 , Impact factor: 0.672.

- **Sudeep Ghosh, Mandira Banik"Post bond 3D IC Testing"**International Journal of Scientific & Engineering Research(IJSER),ISSN 2229-5518,. Impact Factor- 3.45 Volume-8 Issue-6, June 2016 (Accepted & Registered)

DEPARTMENT: FT

National Seminar / Conference

- **Kakali Bandyopadhyay, Chaitali Chakrabortyand**SagarikaBhattacharyya (2015). **Fortification of Mango Kernel Powder in Biscuit Formulation**, Abstract published in the seminar proceedings of National Conference on the Process and Products Development for Better Economy Benefits of the Fats and Oil Industry, organized by Oil Technologists' Association of India, held on 21st -22nd November, 2015 at Kolkata, W.B.

- **Chaitali Chakraborty** and Sanjana Chakraborti (2016). "**Advancement in Packaging of Milk and Milk Products"**, Full Paper published in Seminar Proceedings of National Seminar on a theme "Dairying: Innovative Technology Initiatives in Production and Processing", organized by Indian Dairy Association (EZ), held on 12th March, 2016 at West Bengal Veterinary Council Bhawan Auditorium, Belgachia, Kolkata, W.B.

- Sudipta Sain, Dipsikha Mukherjee and **Chaitali Chakraborty** (2016). **"Food Packaging: Innovation for the future",** Full paper published in the seminar proceedings of 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, held on 13th March, 2016, at Kolkata, W.B.

- Sreemoyee Moitro,Sukanya Kar and **Subhajit Ray**, **"Role of Functional Ingredients in Functional Foods ",** Full paper published in the seminar Proceedings of 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, held on 13th March, 2016, Kolkata, W.B.

- Ankita Kundu, Bhaswati De and **Chaitali Chakraborty** (2016). **"Study on effect of drying on banana chips",** Full paper published in the seminar proceedings of 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, held on 13th March, 2016, at Kolkata, W.B.

    - Anusrre Modak, Nilanjana Mishra and **Kakali Bandyopadhyay**, "**Fortification of Sesame Seed Meal in Cookies Formulation",** Full paper published in the seminar proceedings of 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, held on 13th March, 2016, at Kolkata, W.B.

    - Sreyasi Deb and **Dr.Anju Paul, "Energy Drinks"** Full paper published in the seminar proceedings of 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, held on 13th March, 2016, at Kolkata, W.B.

    - Chendrima Basu, Priayanka Dasgupta and **Dr.Anju Paul**, **"Characterization of Aloe vera and Development of Different Aloe vera Products"** Full paper published in the seminar proceedings of

7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, held on 13th March, 2016, at Kolkata, W.B.

National Journal

- **Sunita Adhikari,"Preparation of Ice Lolly using Beet color"**Beverage & Food World Journal, Vol. 42,Issue 9,Sep(2015),pp. 39-40, ISSN: 0970-6154

- **Subhajit Ray, "Development of Different Jackfruit Products-A Review"** Beverage& Food World Journal, Vol. 32,Issue 8,August(2015), pp.35-38, ISSN: 0970-6154

- Priyam Mondal, Puja Jha, and **Subhajit Ray, "Development and Evaluation of Quality of Carrot Fortified Chips"**, Beverage & Food World Journal,Vol.42,Issue11, Nov(2015),pp. 46-48,ISSN: 0970-6154

- Dipsri, **Subhajit Ray, "A Comparative Study on Drying Kinetics of Tray Dried Cucumber Under Different Temperature and Their Physicochemical Properties",** Beverage & Food World Journal,Vol.42,Issue12, Dec(2015),pp 46-50,ISSN:0970-6154

- **Chaitali Chakraborty,** Pijus KantiGhatak, and Amal Krishna Bandyopadhyay, **"A Comparative Study on the Textural quality of Herbal Sandesh Made in Laboratory and Collected from Local Markets of Kolkata",** Indian Journal Animal Heallth. Vol**54,** Issue 1, 2015 pp 55-62. ISSN: 0019-5057.(NAAS Rating: 2.08).

- **Priyanka Dutta, Sunita Adhikari, Chaitali Chakraborty,Kakali Bandyopadhyay, Anju Paul and Subhajit Ray, "Development and Characterization of Curd Fortified by Pineapple Juice ",**Accepted,Indian journal of Dairy Science,Vol.69,Issue 5,Sep/Oct(2016),ISSN:0019-5146(NAAS Rating: 4.19)

International Seminar / Conference

- **Chaitali Chakraborty,Kakali Bandyopadhyay, Anju Paul and Subhajit Ray, "Development of Curd Fortified by pineapple and Orange Juice"**, International conference on 'Recent Advances in

Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp71,IJCN: ISSN:0971-9210.

- Manasi Roy,Chandrani Dutta and **Subhajit Ray,"Utilization of By-Products from Egg and Egg Product Industries",**Proceedings of International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp303,IJCN:ISSN:0971-9210.

- Sanjana Chakraborti, Ushnil Dutta **and Subhajit Ray"Sustainable & Edible Packaging-When food gets Wrapped" ,** Proceedings of International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp323-324,IJCN:ISSN:0971-9210.

- Smita Singha Roy, Lara Maity, **Kakali Banyopadhyay andChaitaliChakraborty."Effect of Processing on the Functional Properties of Pulse Based Cabbage Soup",** International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp160,IJCN: ISSN:0971-9210.

- Lara Maity, Smita Singha Roy, **Chaitali Chakraborty,and Kakali Banyopadhyay,"Effect of Fortification of Raisin and Dates in Milk"**, International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp 192,IJCN: ISSN:0971-9210.

- Subham Mukherjee, Bornini Banerjee, **Kakali Banyopadhyay andChaitaliChakraborty,"Fortified Vegetable Pudding: Technology and Quality Control"**, International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute

of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp 260,IJCN: ISSN:0971-9210.

- Subhajit Basu, Ankita Kundu, Bhaswati De, Sk. Nazim Ahmed**, Kakali Banyopadhyay and Chaitali Chakraborty,"Nutraceutical Application and Value Addition of Banana Chips"**, International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp 291,IJCN: ISSN:0971-9210.

- Bornini Banerjee, Subham Mukherjee**, Kakali Banyopadhyay and Chaitali Chakraborty, "Preparation and Characterization of Value Added Banana Chips",** International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp 295,IJCN: ISSN:0971-9210.

- Mainak Ghosh, Saikat Gorai and **Amit Kumar Barman**, **"Development of a value added fermented nutra beverage from Madhuca latifolia flower"**,International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp 217-218,IJCN: ISSN:0971-9210.

- Arunima Mukherjee and **Dr. Anju Paul**, **"Development of Different Products from Wood Apple"** International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp 215-216,IJCN: ISSN:0971-9210.

- Sruti Mandal and**Dr. Anju Paul**, **"Aloe vera: A Functional Ingredient of Food"** International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, held on 5th and 6th April 2016, pp 219-220,IJCN: ISSN:0971-9210.

- **Amit Kumar Barman** and Utpal Roy Choudhuri, **"Co-culture fermentation of soy-pea nut milk for the development of a novel functional curd",** Journal of InterAcademia,Vol.20, (2016),ISSN:0971-9016(NAAS Rating:2.34)

- **Amit Kumar Barman** and Utpal Roy Choudhuri, **"Nutritional and functional properties of the soybean",** Journal of InterAcademia,Vol.20,(2016),ISSN:0971-9016(NAAS Rating:2.34)

- **Amit Kumar Barman**,**"shelf life Evaluation of Whey based Banana Herbal (Mentha arvensis) Beverage ",** Journal of InterAcademia,Vol.20,(2016),ISSN:0971-9016(NAAS Rating:2.34)

- **Amit Kumar Barman,Subhajit Ray, Kakali Bandyopadhyay, Anju Paul and Chaitali Chakraborty, "Evaluation of Nutritional Characteristics and Microbiological Quality of Soymilk and Peanut Powder Blend ",**Accepted, Journal of InterAcademia,Vol.20,Issue Jul/Aug (2016),ISSN:0971-9016 (NAAS Rating:2.34)

- **Chaitali Chakraborty, Amit Kumar Barman and Kakali Bandyopadhyay, "Survey of unorganized sector Milk in and around Kolkata"** Journal of InterAcademia,Vol.20, (2016),ISSN:0971-9016 (NAAS Rating:2.34)

- **Amit Kumar Barman, Subhajit Ray, Kakali Bandyopadhyay, Anju Paul and Chaitali Chakraborty**,"Evaluation of Nutritional Characteristics and Microbiological Quality of Soymilk and Peanut Powder Blend"Accepted, Journal of Inter Academia,Vol.20,Issue Jul/Aug (2016),ISSN:0971-9016

International Journal

- **Subhajit Ray**, **"Applications of Extra cellular Microbial Lipase- A Review"** International Journal of Research in Biotechnology & Biochemistry, ,Vol.5,Issue 1, Aug(2015),pp. 6-12, ISSN: 2277-3827 (Impact Factor 1.2)

DEPARTMENT: CA

International Conferences

- Sharmistha Dey, **Santanu Kr Sen**, "An innovative Concept of 4- Dimensional Security Matrix for Cloud Computing ",Paper presented in International Conference of Research in Intelligent Computing in Engineering(RICE 2016), Nagpur,Maharastra, 4-6th April 2016,Conefrence Proceedings on MGH Publication.

International Journal

- **Dola Saha, PrajnaParamita Ray, "Sentiment Analysis on Tweet Data Sets using Data Mining Techniques"** in International Journal Advanced Research in Computer Science and Software Engineering (IJARCSSE, ISSN: 2277-128X), Volume- 5,No-8,pp-932-937, August 2015

- Sharmistha Dey:"**Use of Some Popular Android Applications in Post Disaster Management Scenario"**,published on International Journal of Computer Science and Information Technology,Volume 6,Issue 6, pp: 5274-5278, December 2015.

- **Dola Saha, "**An approach for Cluster Analysis on Tweet Dataset**" ,**International Journal of Advance Research in Computer Science and Management Studies(Manuscript accepted for Publication)

- **Sharmistha Dey,** "Survey on Importance of Context aware Security in Distributed Computing Environment Like Cloud", International Journal of Advanced Research in Computer Science and Software Engineering[ISSN: 2277 128X],Vol 5,Issue 4,pp-1077-1084, April 2015

- **Sharmistha Dey,Santanu Kumar Sen**, "4- Dimensional Security Matrix An innovative approach towards cloud security analysis"(Article ID : IJCSYSE-142692), in International Journal of Computational Systems Engineering (IJCSYSE), paper accepted and under review process

- **Prajna Paramita Ray**, "A New Access Control Model in Cloud Computing",International Journal of Advance Research in Computer Science and Management,(Paper ID: V4I4-0052),Volume 4, Issue 4,May 2016

- **Prajna Paramita Ray**., "Survey on Cloud Based Internet of Things Environment",International Journal of Advance Research in Computer Science and Management ,Vol 4 Issue 4, May 2016.

- **Somalina Chowdhury**,MESSAGE DECODING USING DISTINCT CRYPTOGRAPHIC METHOD(VOL-4,ISSUE-4)APRIL-2016, published in International Journal of Emerging Science and Engineering(IJESE)

- **Somalina Chowdhury**,"NEW CRYPTOGRAPHIC TECHNIQUE & IMPLIMENTATION USING GENETIC ALGORITHM (VOL-4,ISSUE-4)", published in International Journal of Emerging Science and Engineering(IJESE)

DEPARTMENT: ECE

International Seminar / Conference

- **Dipasri Saha:**"A GSA Based Improved MPPT System for PV Generation", 2015,IEEE International Conference On Research In Computational Intelligence And Communication Networks (ICRCICN 2015), 20-22 Nov,2015

- **Suparna Biswas** :"An Efficient Face Recognition method using Contour let Transform" 2015,IEEE International Conference On Research In Computational Intelligence And Communication Networks (ICRCICN 2015), 20-22 Nov,2015

- **Dr. Sunipa Roy**,"Simulation and analytical Study of MEMS based Piezoresistive Pressure Sensor" International Conference MicroCom2016, NIT Durgapur, 17-19 January,2016

- **Koushik Pal** "Generation of Novel Encrypted Code using Cryptography for Multiple Level Data Security for Electronic Patient Record"(pp-916-921, indexed in IEEE Explore) in IEEE International Conference on Bioinformatics and Biomedicine-BIBM 2015, at Washington DC, USA, 9-12 NOV 2015

International Journal

- **Surajit Basak**,"Route Selection for Interference Minimization to Primary Users in Cognitive Radio Ad Hoc Networks: A Cross Layer Approach", Elsevier Journal of Physical Communication, Accepted in December 2015.

- **Palasri Dhar**,"A Comparison between ballistic and scattering limited mobility in GaN Single quantum well and AlGaN/GaN heterostructure, Journal Of Electron Devices, March ,2016 issue

- **AnurimaMajumdar,Antara Ghosal,Sisir K Das, Annapurna Das,**"Design and Analysis of a tuned circular patch antenna for satellite communication application in C band",International Journal of Advanced Research in Computer and Communication Engineering,April,2016,impact factor:-5.332

- **AntaraGhosal,AnurimaMajumdar,Sisir K Das, Annapurna Das**,"Dual Band Microstrip Antenna for Mobile Hand Set",International Journal of Advanced Research in Computer and Communication Engineering,April,2016,IF-5.332

- **Anurima Majumdar**,"The Effect of Defective Ground Plane on a Wide Band Dual Frequency Circular Patch Antenna",International Journal of Advanced Research in Computer Science and Software Engineering,VOLUME 6,ISSUE 4,APRIL 2016,IF-2.5.

- **AnurimaMajumdar,"**Design and Analysis of a Wideband CPW fed CircularPatch Antenna for Wireless Communication Applications",International Journal of Innovative Research in Computer and Communication Engineering,Vol. 4, Issue 5, May 2016,IF-5.618

- **AnurimaMajumdar,**"A Comparative Study Based On Design Parameter Variance in A Circular Patch Antenna Enclosed By A Rectangular ring For Multiband Operation in Wireless And Satellite",International Journal of Engineering Science and computing,April,2016,IF-5.611

- **AntaraGhosal**,"Multifrequency Microstrip Antenna for Mobile Communication",International Journal of Engineering Science and Computing Journal,April-16,IF-5.618

- **PalasriDhar**,"Ballistic and Scattering Limited Mobility in Gan Single Quantum Well and Algan/Gan Step Quantum Well: A Comparative Study",International Journal for Scientific Research & Development,April 2016,IF-2.39

- **Prof. Dr. Arun Kr. Mondal,Soma Boral**,"Outage Capacity of MIMO Mobile Ad Hoc Network"International Research Journal of Engineering and Technology,April 2016,IF-4.45, Vol. 3, Issue 4, April 2016,page:711-713,e-ISSN: 2395 -0056,p-ISSN: 2395-0072

- **Prof. Dr. Arun Kr. Mondal,Soma Boral**,"Enhancement of TCP Performance over MANET",International Research Journal of Engineering and Technology,May 2016,IF-4.45,e-ISSN: 2395 -0056,p-ISSN: 2395-0072,Volume 3 Issue 5, May 2016,page:714-716

- **Aditi Sengupta**, "Analysis of Bandwidth Limitations of Parallel Coupled Microstrip Filter",International Journal of Engineering Science & Computing,IJESC,DOI 10.4010/2016.1107, ISSN 2321 3361 © 2016 IJESC Volume 6, Issue No.5. page no. 4868-4871, May,2016,IF-5.6

- **Soma Manna,Arun Kumar Mondal**"Link Layer Capacity of MIMO Ad Hoc Network with Noise Environment",International Journal For Scientific Research and Development, ISSN:2321 0613,Vol.3, Issue 12, Feb 2016 page:738-740,IF-2.39

DEPARTMENT: ASH

National Journal

- **Mrs. Sucharita Chakrabarti** and Hiranmay Dasgupta,"Classification of Points of M-discontinuity of a mapping in m-spaces",Journal of Tripura Mathematical Society, 16 (March 2016), 1-10, ISSN: 0972-1320,

- **Mrs. Sucharita Chakrabarti** and Subhasis Saha," Study of metallic crystal lattices using graphs", Journal of Tripura Mathematical Society, 11(2) 105-110, January, 2016, ISSN: 2231-5314.

National Seminar / Conference

- **Mrs. Sucharita Chakrabarti**," Study of metallic crystal lattices using graphs", National Conference on Emerging Trends in mathematics and Mathematical Sciences (**NCETMMS**) organized by Calcutta Mathematical Society, Salt Lake, December 17-19, 2015.

- **Dr. Soma Mukherjee**:"Study of temperature dependent dc conductivity of $Fe_{1-x}Co_xO_y$ film grown on MgO (100)", National Conference on Advancement in Frontier Physics : From 20th Century to the present organised by the Dept. of Physics, Bhairab Ganguly College, Kolkata, 26th – 27th Feb. 2016

International Seminar / Conference

- **Dr. Sucharita Bhattacharyya & Mr. Anup Thander** "Rib wave guide propagation through modal index study using Higher Order Compact Finite Difference Method" Codec 2015: IEEE international conference organized by the Institute of Radio Physics & Electronics, CU **(**ISBN 978-1-4673-9513-7) 16-18 Dec. 2015

- **Dr. Sucharita Bhattacharyya & Mr. Anup Thander** :"Optical Wave guide analysis using Higher Order Compact FDM in combination with Newton Krylov Subspace Methods" IEEE International Conference on Research in Computational Intelligence and Communication Networks 2015: organized by RCCIT, Kolkata, 20-22 Nov,2015, ISBN 978-1-4673-6734-9.

- **Mr. Mainak Debnath**,"Mono-oxido vanadium(V) and di-oxido vanadium(V,V) compounds with N_2O_4 donor phenol based ligand: synthesis, structure, catalytic and kinetic study." International Conference on Modern Trends in Inorganic Chemistry, organized by Department of Chemistry, Jadavpur University, 3-5 December 2015.

- **Dr. Soma Mukherjee** "Transport properties of rare earth manganite $LaMnO_3$ doped 50 mol% V_2O_5 - 50 mol% PbO nanocomposite", 103rd Indian Science Congress organized by Mysuru University, Mysuru, 3-7th Jan 2016

International Journal

- P.K. Chakraborty**, Soma Mukherjee** and B.K. Chaudhuri**,** "A note on the closed form solution and the series expansion for the Fermi-Integral $F_{1/2}(E_F/k_BT)$ of the density-of-states function in Semiconductors" International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 4, Issue 4, July 2015, pp 90-94, ISSN: 2319-5967, ISO 9001:2008 Certified, Impact factor-1.913

- **Mr. Anup Kumar Thander & Dr. Sucharita Bhattacharyya** :"Optical Confinement Study of different semi conductor rib wave guides using Higher Order Compact Finite Difference Method", Optik, an Elsevier Journal 127(2016)2116-2120, February 2016.

- **Mrs. Sucharita Chakrabarti** and Hiranmay Dasgupta,"On Generalized Structure: Soft Fuzzy m-Spaces",Bulletin of Calcutta Mathematical Society, 108(2), 135-152, May, 2016, ISSN: 0008- 0659.

DEPARTMENT: EE

International Journal

- **Dr. Prabal Deb** "A Simple Input Current wave-shaping Technique for 3-Phase Diode & SCR Converters" published in International Journal of Electronics (ijeditor),manuscript ID is TETN-2016-0440,10 May, 2016.
- **Susovan Dutta,** "Movement of microfluidic droplet in electromagnetic field." Paper accepted in Elsevier, May,2016
- **Dr. Prabal Deb**"Performance and Design of an Open-Delta Connected Grid Tied Bidirectional PWM Converter" International Journal of Electrical Power and Energy Systems (2016), 17-DEC-2015 ELSEVIER pp. 183-193(Impact Factor 1.25)

- **Prabal Deb"**Open-Delta ConverterPerformance analysis" published in International Journal IEPEDS, JULY 2015 .
- **Sisir Mazumder, Susovan Dutta** and **Akash Samanta(ex-student,GNIT),**" Design of Inverters with Harmonics Reduction Technique Using Artificial Neural Network" , IJISET international journal in July, 2015, ISSN 2348-7968, impact factor 4.332
- **Sisir Mazumder,** "Quality of Work-life(QWL) among the Engineering personnel and concerns of Organizational Effectiveness(OE) in the state of West Bengal,India",in Global Journal of Engineering Science Research Management, March-2016, ISSN 2349-4506, impact Factor 2.545.
- **Sisir Mazumder,** Organizational Knowledge Management Environment(OKME)/Learning Environment(LE) and concerns of Organizational Effectiveness(OE) in Global Journal of Engg Science Research Management, March-2016, ISSN 2349-4506, impact Factor 2.545
- **Sisir Mazumder"** Design of Inverters with Harmonics Reduction Technique Using Artificial Neural Network" ,IJISET international journal in, ISSN 2348-7968 July, 2015
- **Susovan Dutta"** Design of Inverters with Harmonics Reduction Technique Using Artificial Neural Network" , IJISET international journal in, ISSN 2348-7968 July, 2015
- **Suman Ghosh** "Calculation Of Hot Spot Temperature And Aging Of A Transformer", International Journal of Technical Research and Applications (IJTRA), Volume 4, Issue 1 (January-February, 2016), PP. 140-143, Impact Factor: 4.39.
- **Suman Ghosh ,Rikta Majumder, Rituparna Mukherjee** "Transient Analysis of Single Phase Transformer Using State Model", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) , (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 3, March 2016,Impact Factor: 5.44.
- **Rikta Majumder ,Suman Ghosh , Rituparna Mukherjee** "Transient Analysis of Single Phase Transformer Using State Model", International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) , (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 3, March 2016,Impact Factor: 5.44.

DEPARTMENT: AEIE

International Seminar / Conference

- **Dibyendu Sur,Sanjana Ghosh,Bansari Deb Majumder, Arijita Das, Susmita Das, Anilesh Dey,Sudip Kuila**,"Heart Disease Diagnosis By Using Artificial Neural Network", 2nd International conference on Microelectronics,Circuits and Systems, Micro2015 on 11-12 July 2015

- **Adhish Kr. Chakraborty, Samar Bhattacharya** , "Lyapunov Based Two Stage Robust Model Reference Adaptive Controller for Linear Plants With Time Varying Bounded Uncertainties",4THInternational Conference on Advances in Control and Optimization of Dynamical Systems, ACODS 2016 during Feb 1 - 5, 2016 in NIT,Tiruchirapalli

- **Paramita Banerjee**,Samhita Dasgupta, Bhaswati Goswami, Ratna Ghosh, "Electrical Impedance model of piezoelectric based sensor", IEEE First International Conference on Control, Measurement and Instrumentation ,pesented during Jan 8-10,2016 and peoceedingd has been published in IEEE portal,2016.

- **Paramita Banerjee**, Bhaswati Goswami,Ratna Ghosh,"Electrical equivalent cascade model of piezoelectric based sensor",WIECON-ECE 2015,Dec 2015.

International Journal

- **Bapita Roy, Prof.Dr.Rajib Chakraborty**, "Semi analytical approach to study the loss characteristics of a symmetrical multilayered plasmonic waveguide", International Journal of Applied Optics,Vol. 55, No. 7 / March 1,2016 / Applied Optics 1765 ,Published on: 1st March 2016,Impact Factor: 1.784 Total Citations: 38,885(ranked 4th out of 86 journals),Eigen Factor Score: 0.04119 (ranked 5th out of 86 journals),*According to Optics category rankings in the 2015 Journal Citation Reports, (Thomson Reuters, 2015)

2014-15

DEPARTMENT: CSE

International Seminar / Conference

- **Mrs. Srabani Kundu:**" Event Boundary Detection and Gathering in Wireless Sensor Networks" In Proceedings of the 2nd IEEE Conference on Applications and Innovations in Mobile Computing Feb,2015(AIMOC)

International Journal

- **Sourish Mitra,Moloy Dhar, Ankur Mondal,Rafiqul Islam,Nirupam Saha**:"**DCT Based Steganographic Evaluation Parameter Analysis in Frequency domain by using modified JPEG luminance Quantization Table"** published as an International Journal in IOSR-JCE (International Organization of Scientific Research-Journal of Computer Engineering) with impact factor:1.686, e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 17, Issue 1, Ver. V (Jan – Feb. 2015), PP 68-74.

- **Sourish Mitra"A Location Dependent Cryptographic Approach Based on Target Coordinate & Distance Tolerant Key transfer for GPS mobile Receiver"**published as an International Journal in IOSR-JCE (International Organization of Scientific Research-Journal of Computer Engineering) with impact factor:1.686,e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 17, Issue 1, Ver. VI (Jan – Feb. 2015), PP 56-63

- **Sourish Mitra,Debraj Roy,Bidyutmala Saha,Shirsankar Basu,Pallabi Das**:"**An Open-SSL Based Algorithmic Approach for Secure Data Transfer in Virtual Private Network"** published as an International Journal in IJETA (International Journal Of Engineering Trends and Application-ISO-3297:2007)with impact factor:1.76,ISSN:2393-9516,Volume-2,Issue-1,March-2015.

- **Bidyutmala Saha,Santanu Kumar Sen,Debraj Roy,Sandip Tigga,Sourish Mitra:"**A Proposed Algorithmic approach of Bot-Matrix Propagation in Botnet Detection"published as an International Journal in IJETA (International Journal Of Engineering Trends and Application-ISO-3297:2007)with impact factor:1.76,ISSN:2393-9516,Volume-2,Issue-2,March-2015.

- **Sayani Chandra, Ipsita Saha, Poojarini Mitra, Bidyutmala Saha,Sinthia Roy**:"A brief overview of clustering schemes applied on Mobile Ad-hoc Networks"published as an International Journal in International Journal of Advanced Research in Computer Science And Software Engineering (IJARCSSE).ISSN:2277-128X, Vol-5, Issue:-2, February,2015.,pp-667-675.

- **Poojarini Mitra, Sinthia Roy,Sayani Chandra, Ipsita Saha, Bidyutmala Saha:"Energy Efficient Approach On Cut Detection In Wireless Sensor Network"**published as an International Journal inInternational Journal of Computer Science and Information Technologies (IJCSIT), ISSN:0975-9646, VOL-6(2),2015,pp-1282-1286

- **Ipsita saha, Sayani Chandra:"Incorporating different SMS transfer processes in Social Networking Site"**published as an International Journal IJCOT (International Journal of Computer & Organization Trends) , ISSN- 2249-2593, Vol-17(1), Feb-2015.

- **Ipsita saha, Poojarini Mitra, Sayani Chandra: "Introducing Autonomous Car Methodology in WSN"**published as an International Journal IJCOT (International Journal of Computer & Organization Trends) , ISSN- 2249-2593, Vol-17(1), Feb-2015.

- **Ipsita Saha, Poojarini Mitra, Bidyutmala Saha,Sinthia Roy:"Spark Core Based Wireless Remote Door Lock and Multiple Access Synchronization"**published as an International Journal in International Journal of Advanced Research in Computer Science And Software Engineering (IJARCSSE).ISSN:2277-128X, Vol-5, Issue:-4, February,2015,pp-542-546.

- **Poojarini Mitra, Sinthia Roy."A Reliable and Energy Efficient Enhancement of Data MULEs Protocol for Wireless Sensor Network"**published as an International Journal in International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE).4th April 2015. Impact factor: 2.5 ,Science Central Evaluation Score: 6.39

DEPARTMENT: IT

International Seminar / Conference

- **Baisakhi Das**,"A CA Based Scheme Of Cache Zone Prediction for Data Migration In CMPs." ; The 11th IEEE India Conference, INDICON 2014, 11th – 13th Dec, 2014 , Yashada, Pune. ISBN: 978-1-4799 5362-2.

International Journal

- **Baisakhi Das**, Implementation of Digital Watermarking using Discrete wavelet Transform, International Journal of Innovative Research in Technology and Science (IJIRTS). ISSN: 2321-1156.March,2015
- **Baisakhi Das, Biplab K Sikdar**, Exploring the Impact of Fault on CMPs' Power for Diagnosis of Faulty Module ; Journal of Parallel and Distributed Computing, Elsevier.(Communicated)
- **Baisakhi Das, Biplab K Sikdar**, Design of CA based data Migration for Chip Multiprocssors; Journal of Microproessors and Microsystems, Elsevier.(Communicated)

DEPARTMENT: AEIE

National Seminar / Conference

- **Adhis Kr. Chakraborty**, "Robust Model Reference Adaptive Controller for Linear Multivariable Plants" -an Approach using Estimates of Uncertainties" organized by IIT Madras and IEEE Control System Society during 5th-7th January 2015

International Seminar / Conference

- **Bapita Roy,** "Experimental verification of MMI by singlemode-multimode-singlemode and multimode-singlemode structures " published in International Conference on Optics and Photonics 2015,, Proc. of SPIE Vol. 9654, 96541Q · © 2015 SPIE CCC code: 0277-786X/15/$18 · doi: 10.1117/12.2182359,Proc. of SPIE Vol. 9654 96541Q-1 , 22/06/15.

- **Paramita Banerjee,**"Electrical equivalent cascade model of piezoelectric based sensor "WIECON-ECE 2015

- **Paramita Banerjee**"Electrical impedance model of piezoelectric based sensor(accepted for the presentation)" 2016 IEEE First international conference on Control, Measurement and Instrumentation (CMI2016) Jan 08-10, 2015

- **Prof. Anil Kr. Ghoshal:**Int. Conf. On ElectronMicroscopy & XXXIV Annual Meeting of EMSI organized by SINP, Kolkata & EMSI during 3-5 July,2014

- **Suparna Maity,Santana Das,Sanghamitra Layek,Bapita Roy,**International Conference On Recent Trends In Engineering Science And Management (ICRTESM -2015) organized by Conference world A.R.Research Publication during 15 March, 2015.

- Bapita Roy,Photonics 2014: 12th International Conference on Fiber Optics and Photonics ISBN: 978-1-55752-882-7 organized by The Optical Society of America, Kharagpur IIT, India during December 13-16, 2014

- **Bapita Roy**,XXXIX Conference of the Optical Society of India, International Conference on Optics and Photonics ICOP 2015- SPIE organized by Optical Society of India, Department of Applied Optics and Photonics,University of Calcutta, INDIA during February 20-22, 2015

- **Sanghamitra Layek,Santana Das**,Programmableluggage secuirity system International Conference on Recent Trends in Engineering Science And Management by ARreserch Publication ISBN 978-81-931039-2-0,15th March-2015.

International Journal

- **Bapita Roy,** International Journal of Advanced Technology in Engineering and science, Title with Page No.-A smart method for automatic temperature controlPP:1257-1263, ISSN2348-7550, Impat Factor: 1.012, March 2015

- **Suparna maity : "**PC Based Automatic Irrigation System **" in** International Journal of Advanced Research in Science & Engineering , ISBN-2319-8354, Impact Factor-1.142

DEPARTMENT: FT

National Seminar / Conference

- **Dr. Subhajit Ray**, Abstract published in the Seminar Proceedings on the topic "**Milks and Milk Products As Functional Foods- A Review**" in the 43rd Dairy Industry Conference organized by Indian Dairy Association (East Zone) at Science City, Kolkata, 19-21st February, 2015.

- **Dr.Subhajit Ray** "Potential role of Biotechnology for the development of Functional Food" National seminar on Recent Advances in Biotechnology, organized by Biotechnology Research Society of India, IICB-JU Kolkata Chapter 17th April,2015.

- **Dr.Subhajit Ray Dr.Kakali Bandyopadhyay, Dr.Sunita Adhikari, Dr.Chaitali Chakraborty, Dr. Anju Paul** "Studies on functional properties of pineapple juice fortified curd" National seminar on Recent Advances in Biotechnology, organized by Biotechnology Research Society of India, IICB-JU Kolkata Chapter 17th April,2015.

- **Dr. Subhajit Ray**, Abstract published in the Seminar Proceedings on the topic "Utilization of Citrus fruits waste for pectin extraction" in the All India Inter College Academic Meet-2015 & Science and Technology Exhibition for a Sustainable Society organized by FOSET on 26th April, 2015.

- **Dr. (Mrs.) Kakali Bandyopadhyay, Dr. Chaitali Chakraborty , Mr. Amit Kumar Barman, Dr. Sunita Adhikari,** Abstract published in the Seminar Proceedings on the topic "**Optimization of Process parameters for production of Soya Curd**" in the 43rd Dairy Industry Conference organized by Indian Dairy Association (East Zone) at Science City, Kolkata, 19-21st February, 2015.

- **Dr. (Mrs.) Kakali Bandyopadhyay, Dr. Chaitali Chakraborty , Mr. Amit Kumar Barman, Dr. Sunita Adhikari,** Abstract published in the Seminar Proceedings on the topic "**Studies on**

Utilization of Milk for extraction of Polyphenols from Raisins" in the 43rd Dairy Industry Conference organized by Indian Dairy Association (East Zone) at Science City, Kolkata, 19-21st February, 2015.

- **Dr. (Mrs.) Kakali Bandyopadhyay, Dr. Chaitali Chakraborty** , **Mr. Amit Kumar Barman, Dr. Sunita Adhikari,** Abstract published in the Seminar Proceedings on the topic "**Formulation of Whey based Fruit Herbal Beverage**" in the 43rd Dairy Industry Conference organized by Indian Dairy Association (East Zone) at Science City, Kolkata, 19-21st February, 2015.

- **Dr.Kakali Bandyopadhyay,** "Effect of processing on the functional properties of pulse based tomato soup" National seminar on Recent Advances in Biotechnology, organized by Biotechnology Research Society of India, IICB-JU Kolkata Chapter 17th April,2015.

- **Dr. Kakali Bandyopadhyay**, Abstract published in the Seminar Proceedings on the topic "Trans-Fat in Junk Food: A recipe of Disaster" in the All India Inter College Academic Meet-2015 & Science and Technology Exhibition for a Sustainable Society organized by FOSET on 26th April, 2015.

- **Dr. Kakali Bandyopadhyay**, Abstract published in the Seminar Proceedings on the topic "Effect of Processing on the Functional Properties of Pulse Based Cabbage Soup" in the All India Inter College Academic Meet-2015 & Science and Technology Exhibition for a Sustainable Society organized by FOSET on 26th April, 2015.

- **Dr. Anju Paul**,"Effect of Processing on the antioxidant content of some common vegetables" National seminar on Recent Advances in Biotechnology, organized by Biotechnology Research Society of India, IICB-JU Kolkata Chapter, 17th April,2015.

- **Dr. Anju Paul**, Abstract published in the Seminar Proceedings on the topic "Microwave Heating and its effects on Food" in the All India Inter College Academic Meet-2015 & Science and Technology Exhibition for a Sustainable Society organized by FOSET on 26th April, 2015.

- **Dr. Chaitali Chakraborty**, **Dr. (Mrs.) Kakali Bandyopadhyay, Dr. Sunita Adhikari, Mr. Amit Kumar Barman** Abstract published in the Seminar Proceedings on the topic "**Herbal Whey Drink as Functional Dairy Product**" in the 43rd Dairy Industry Conference organized by Indian Dairy Association (East Zone) at Science City, Kolkata, 19-21st February, 2015.

- **Dr.Chaitali Chakraborty**,"Development and Characterization of Vegetable Pudding", National seminar on Recent Advances in Biotechnology, organized by Biotechnology Research Society of India, IICB-JU Kolkata Chapter 17th April,2015.

- **Dr. Chaitali Chakraborty**, Abstract published in the Seminar Proceedings on the topic "Microbial Competence to higher organisms as a protein source-SCP (Production, Application, and statistics of protein enriched cells)" in the All India Inter College Academic Meet-2015 & Science and Technology Exhibition for a Sustainable Society organized by FOSET on 26th April, 2015.

- **Dr.Sunita Adhikari,** "Studies on the Characteristics of beet color" National seminar on Recent Advances in Biotechnology, organized by Biotechnology Research Society of India, IICB-JU Kolkata Chapter 17th April,2015.

- **Dr. Sunita Adhikari**, Abstract published in the Seminar Proceedings on the topic "Food Waste Management & Recycle" in the All India Inter College Academic Meet-2015 & Science and Technology Exhibition for a Sustainable Society organized by FOSET on 26th April, 2015.

- **Mr.Amit Kumar Barman,** "Development of a fermented food by soy-pea nut milk and cow milk " National seminar on Recent Advances in Biotechnology, organized by Biotechnology Research Society of India, IICB-JU Kolkata Chapter 17th April,2015.

- **Mr.Amit Kumar Barman**, Abstract published in the Seminar Proceedings on the topic "Development and Storage Studies of Whey based Pineapple Herbal (Mentha Arvensis)Beverage" in the All India Inter College Academic Meet-2015 & Science and Technology Exhibition for a Sustainable Society organized by FOSET on 26th April, 2015.

National Journal

- **Dr. Subhajit Ray** ,Research Paper Published on "**Fermentative Production of Wine from Different Fruit Juices: An Overview"** in Beverage and Food World Journal,vol.42,No.1,January 2015

- **Dr. Subhajit Ray,** Research Paper Published on "**Impact of Natural Antioxidant on Food Stability: Review"** in Beverage and Food World Journal, vol.42, No.1, February 2015

- **Dr. (Mrs.) Kakali Bandyopadhyay, Dr. Chaitali Chakraborty,**Research Paper published in *Beverage & Food World* Journal entitled "Development of Healthy Appetizer Using Sweet Potato Powder as Functional Ingredient", 41(4): 48-49. (July, 2014)

- **Dr. (Mrs.) Kakali Bandyopadhyay**, **Dr. Sunita Adhikari, Dr. Anju Paul,** Research Paper published in *Beverage & Food World* Journal entitled "Characterization of Pumpkin Seed & Pumpkin Seed Oil", 41(12), 39-41, (2014).

- **Dr. (Mrs.) Kakali Bandyopadhyay**, Research Paper published in *J. Interacademicia* Journal entitled "Studies on the Extraction of Polyphenols from Raisins", 18(3), 386-389, (2014).

- **Dr. Chaitali Chakraborty**, Review Paper published in***Indian Dairyman*** entitled "**Herbs and Spices as Natural Food Additives**" , 66(8):page no 76-81. ISSN 0019-4603. (August, 2014)

International Seminar / Conference

- **Dr. Subhajit Ray,** Abstract published in the Seminar Proceedings on the topic "**Potentiality of Formulated Carrot Powder Fortified Value Added Biscuit As Functional Food**" in the International Conference on 3S: Safety, Security and Sustainability, Organized by Dept. of FTBE, JU,Kolkata, 27th February-1st March, 2015.

- **Dr. Subhajit Ray**,Abstract published in the Seminar Proceedings on the topic "**Development and Evaluation of Quality Carrot Fortified Chips**" in the International Conference on 3S: Safety, Security and Sustainability, Organized by Dept. of FTBE, JU,Kolkata, 27th February-1st March, 2015.

- **Dr. Subhajit Ray** ,**Dr. (Mrs.) Kakali Bandyopadhyay**, **Dr. Anju Paul,Dr. Chaitali Chakraborty** , **Dr. Sunita Adhikari** Abstract published in the Seminar Proceedings on the topic "Development of Curd fortified by Pineapple juice" in International Conference on 3S: Safety, Security and Sustainability, Organized by Dept. of FTBE, JU, and 27th February -1st March, 2015.

- **Dr. (Mrs.) Kakali Bandyopadhyay**, Abstract published in the Seminar Proceedings on the topic "Effect of Processing on the Functional Properties of Cabbage", in International Conference on 3S-

Safety, Security and Sustainability: Innovations in Food and Bioprocess Industries, Organized by Dept. of FTBE, JU, and 27th February -1st March, 2015.

- **Dr. Anju Paul,** Abstract published in the Seminar Proceedings on the topic "**Study of Antimicrobial and Antioxidant Properties and medical values of *Adhatoda vasica, Centella asiatica, Paederia foetida, Ocimum tenuiflorum***" in International Conference on 3S: Safety, Security and Sustainability, Organized by Dept. of FTBE, JU, and 27th February -1st March, 2015.

- **Dr. Chaitali Chakraborty** ,Abstract published in the Seminar Proceedings on the topic "**Survey on milk adulteration in Kolkata and its suburbs**" in International Conference on 3S: Safety, Security and Sustainability, Organized by Dept. of FTBE, JU, and 27th February -1st March, 2015.

- **Dr.Chaitali Chakraborty, Mr.Amit Kumar Barman"**Development of Curd by Fortification of Soymilk and peanut milk " 'International Conference on Sustainable Innovations in Dairying' held in International Convention Centre, Rajgir, Nalanda, Bihar ,25th april,2015.

- **Dr. Sunita Adhikari** , Abstract published in the Seminar Proceedings on the topic "**Optimization of Alcohol Production by *Saccharomyces cerevisiae* MTCC 178: Response Surface Methodology**" in International Conference on 3S: Safety, Security and Sustainability, Organized by Dept. of FTBE, JU, and 27th February -1st March, 2015.

- **Mr. Amit Kumar Barman**, **Dr. Chaitali Chakraborty** ,Abstract published in the Seminar Proceedings on the topic "**Development of a Fermented Food By the Combination of Soymilk & Peanut milk"** in International Conference on 3S: Safety, Security and Sustainability, Organized by Dept. of FTBE, JU, and 27th February -1st March, 2015.

International Journal

- **Prof. Parimal Chattopadhyay**, Research Paper Published on **"Production and Characterization of crude thermostable invertase from *Cryptococcus laurentii* S23"** in Indian Chemical Engineer Journal, Feb 2015, pp.1-18.

DEPARTMENT: EE

National Seminar / Conference

- **Mrs. Rikta Majumder**, Voltage sag Mitigation by Dynamic Voltage Restorer IEEE CALCON 2014

International Seminar / Conference

- **Reshmi Banerjee** ,Simulation and Modeling for Transition to an Energy Efficient Economy International Conference on Renewable Energy

International Journal

- **Mr. Shyamal Kumar Roy**, "A survey mems micromotor assembles and applications", published in IJERGS ISBN 2091-2730, may,2015, Impact factor-3.843

- **Mr. Shyamal Kumar Roy**, "VLSI Modelings of Neural Pulse-Based Computations" published in IJERGS ISBN 2091-2730, may,2015, Impact factor-3.843

- **Reshmi Banerjee,** "Importance of Recycling" published in IJIREEICE June, 2015, Impact factor-3.885
- **Reshmi Banerjee,** "Importance of Energy Conservation " published in IJIRAE , April, 2015, Impact factor-1.893

- **Reshmi Banerjee** ,Development of PC Based Transient Current Analysis System Using Microcontroller and Hall Effect Sensor,International Journal of Engineering Research and General Sciences

- **Reshmi Banerjee** , Closed Loop Traffic Signal Controller International Journal of Scientific Research and Publication

- **Reshmi Banerjee** , Literature Survey of Water Control System by PLC Control and Its Cost AnalysisInternational Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering

- **Reshmi Banerjee** ,Optimization of The Building Energy Performance Through Dynamic Modeling, Systems Simulation, Field Monitoring and Evaluation of Renewable Energy Applications,International Journal of Engineering Research and Applications

- **Reshmi Banerjee** Water Level Controller by Fuzzy Logic International Journal of Innovative Research in Advanced Engineering.

- **Reshmi Banerjee** , Solar Tracking System International Journal of Scientific Research and Publications

- **Mr.Susovan Dutta , Mr.Sisir Mazumder** ,Analytical study and Designing of a I-PD controller (a practical Modified PID controller)for a third order system using MATLAB simulation International Journal of Engineering Research and General Sciences,ISSN 2091-2730 ,2015

- **Dr. Prabal Deb**,"Performance study of a Grid Tied Bidirectional Converter",published in ***Elsevier***,2015

DEPARTMENT: ECE

National Seminar / Conference

- **Dr. Sunipa Roy ,"**Development of Microcontroller based integrated gas sensor system for detecting combustible gases"proceddings on national conference on FOSET Academic meet, MCKV Institute of technology, Liluah, Howrah. 26thApril, 2015.

International Seminar / Conference

- **Mr. Surajit Basak**, On Lifetime Centric Routing and Power Allocation in BER Constrained Cognitive Radio Ad Hoc Networks Paper Id. No. 1570006973 Eighth IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS) Sponsored by IEEE Communications Society Dec. 14-17, 2014, C-DOT campus, Mehrauli, New Delhi, INDIA.

- **Koushik Pal**, GUI based Smart Breast Cancer Identification System Using 2nd Level Secured Combined Crypto-Watermarking,(paper ID: B480) IEEE sponsored International Conference on Bioinformatics and Biomedicine (BIBM 2014),**Belfast, United Kingdom.**

- **Dr. Sunipa Roy**,Effect of Relative Humidity on Pd Modified ZnO Nanorod based Methanol Sensor Proc. of International conference (ICAMET) 2014, IIEST Shibpur December 17-19, 2014 sponsored by Southern University Baton Rouge (SUBR), Louisiana, USA.

- **Dr. Sunipa Roy**, Anchoring of Pd Nanoparticle on ZnO ThinFilm with Optical and Structural Characteristic studyProc. of International conference (ICAMET) 2014, IIEST Shibpur December 17-19, 2014 sponsored by Southern University Baton Rouge (SUBR), Louisiana, USA.

- **Dr. Sunipa Roy,** Development of MEMS based Microheater Array for Multi-Gas Sensor Proc. of International conference (ICAMET) 2014, IIEST Shibpur December 17-19, 2014 sponsored by Southern University Baton Rouge (SUBR), Louisiana, USA.

- **Suparna Biswas**, Facial Expression Recognition using Modified Local Binary Pattern International Conference on Computational Intelligence in Data Mining.(ICCIDM'2014 Conference.

- **Suparna Biswas**, An Efficient Expression Recognition Method using Contourlet Transform 2nd International Conference on Perception and Machine Intelligence, PERMIN 15.

- **Swagata Bhattacharya**, A New Walsh Hadamard Transform Architecture Using Current Mode Circuit IEEE Computer Society Symposium on VLSI 2014, Tampa ,Florida,USA.

- **Surajit Basak**,"Heart Disease Diagnosis By Using Artificial Neural Network" 2nd International conference on icroelectronics,Circuits and Systems, Micro2015, Conference 2015

International Journal

- **Dr.ArunMondal, Implementation of minimal loss algorithm in mimo based mobile ad hoc network to find loss less route** EURASIP Journal on Wireless Communications and Networking MS ID : 1827852227161011

- **Mrs. Palasri Dhar, Two dimentional mobility in Gallium Nitrate (GaN) quantum well and Gallium Arsenide (GaAs) single** quantum well and :A comparative study. Journal of Electron Devices.

- **Mrs. Antara Ghosal,Mrs. Anurima Majumdar**,Wideband and Multifrequency Square Spiral Microstrip Patch Antenna International Journal of Innovative Research in Computer and Communication Engineering.

- **Avali Ghosh, Aditi Mandal, Annapurna Das, Sisir Kumar Das**,Analysis and Measurements of Crosstalk in High Speed and High Frequency Printed Circuit Boards SEMCE(I) Journal on Electromagnetic Compatibility.

- **Dipasri Saha** ,"An Improved MPPT of SPV System using PSO"International Journal of Innovative Research in Science, Engineering and Technology.

- **Koushik Pal,**"Extraction and Authentication of Hidden Patient's Information from Biomedical Image through Crypto-Watermarking Technique" published in IEM International Journal of Management and Technology (IJMT), March, 2015

- **Koushik Pal,Surajit Basak**,"Joint Power Allocation and Routing in Outage Constrained Cognitive Radio Ad Hoc Networks" published in Springer journal of Mobile Application and Networks (MANET) Special Issue on Green Communications and Networking, vol 20 no. 3,May, 2015,impact factor-1.496

DEPARTMENT: ASH

National Journal

- **Mr. Chinmoy Ghosh**, "(p,q)th Order Based Growth Analysis of Composite Entire Functions "published in Journal of Advanced Research in Pure Mathematics,Accepted in April 2015.

- **Mr. Goutam Mandal**, "Determination of robust optimum plot size and shape - a model based approach."published in Biometrical Letters with Index Copernicus Punkty MNISW -9, June, 2015

- **Dr. Indrajit Bose**," Behind the Pointed Arches: An Exegesis of Gothic Architecture in Poe, Hawthorne and James."JUSAS Online, Vol 3 (February 2015), national Journal (online) of the Jadavpur University Society of American Studies.

International Seminar / Conference

- **Dr. Soma Mukherjee,** Md. Golam Masud, Dilip K. Modak and B. K. Chaudhuri, "Polaronic hopping conduction in ionic $xLi_2SO_4^{-2}(1-x)[RLi_2O.B_2O_3]$ glasses", Published in the Conference Proceedings of 102nd Indian Science Congress (Materials Science Section) P-67, 2015 International Conference Proceedings , Conference held during Jan. 3 to 7, 2015 at University of Mumbai.

- **Dr. Sucharita Bhattacharya,Anup Kumar Thander**"HOC analysis for single mode optical propagation in Semiconductor Rib Wave Guide",published in Elsevier Proceedings p (684-687) during (17-19)th July, 2014 in an International Conference on Mathematical Sciences (ICMS-2014) at Sathyabama University, Chennai in association with University of Central Florida, USA and The Institute of Mathematical Sciences (IMSC), Chennai International Conference Proceedings ISBN 978-93-5107-261-4

International Journal

- **Dr. Soma Mukherjee, B. K. Chaudhuri and S. C. Sarkar** "Anomalous transport and dielectric behavior of the $CaCu_3Ti_4O_{12}$ (CCTO) type high dielectric constant materials",International Journal of Engineering Science and Innovative Technology (IJESIT) ISSN: 2319-5967, ISO 9001:2008 Certified, Volume 4, Issue 1, January 2015, Impact factor-1.913

- **Dr. Sucharita Bhattacharya & Anup Kumar Thander**,"Study of Optical WaveGuide using HOC scheme"published in Applied Mathematical Sciences Vol. 8. No. 79 P (3931-3938) 2014 International Journal *ISSN : 1312885X* SCI Thomson Reuter Impact factor 0.781 , has SCOPUS citation.

- **Dr. Sucharita Bhattacharyya & Mr. Anup Kumar Thander** ,"Higher Order Compact (HOC) Finite Difference Method (FDM) to study Optical Confinement through semiconductor rib wave guides" published inAdvanced Studies in Theoretical physics, Vol. 9, 2015, no. 8, 369 - 378ISSN 1313-1311 Thomson Reuter Impact factor 0.95 , has SCOPUS citation.

- **Anup Kumar Thander, Sayan Dasgupta, Utsav Dawn** ,"A New Fourth Order Newton Like Iterative Method for Nonlinear Equations"Published in Applied Mathematical Sciences Vol. 8. No. 82 P (4079-4085) 2014, International Journal *ISSN : 1312885X* SCI Thomson Reuter Impact factor 0.81 , has SCOPUS citation.

- **Sucharita Chakrabarti**,"Touching Sets and its Applications"International Journal of Mathematical Analysis Vol. 8, no. 52, 2577 – 2589 International Journal ISSN: 1312-8876 (Print) ISSN: 1314-7579 (Online)

- **Sucharita Chakrabarti** ,"A Fixed Point Theorem of Caccioppoli - Kannan Type on a Class of Generalized Metric Spaces"International Mathematical Forum, Vol. 9, no. 28, 1357 – 1361 International Journal ISSN: 1312-7594 (Print) ISSN: 1314-7536 (Online).

- **Chinmay Ghosh** ,"Some Growth Properties of Iterated Entire Functions on the Basis of Slowly Changing Functions",international Journal of Open Problems in Complex Analysis, Vol 6, No 3Internationa International Journal 2074-2827

- **Mainak Debnath**,"Water-Stable Manganese(IV) Complex of a N2O4-Donor Non-Schiff- Base Ligand": Synthesis, Structure, and Multifrequency High-Field Electron Paramagnetic Resonance Studies, Inorg. Chem. 2014, 53, 5423−5428, International Journal1520-510X.

- **Mainak Debnath**, Copper(II) induced oxidative modification and complexation of a schiff base ligand: synthesis, crystal structure, catalytic oxidation of aromatic hydrocarbons and DFT calculation, RSC Adv., 2014, 4, 34248–34256 International Journal 2046-2069

- **Anup Kumar Thander & Sucharita Bhattacharya**, "Development and Application of Higher Order Compact (HOC) Finite Difference Method (FDM) to study the Single-Mode Optical Propagation through Semi- Conductor Rib Wave Guides" Accepted in Asian Journal of Physics ISSN No. 0971- 3093,2015

- P.K. Chakraborty**, Soma Mukherjee**and B.K. Chaudhuri**,** "A note on the closed form solution and the series expansion for the Fermi-Integral $F_{1/2}(E_F/k_BT)$ of the density-of-states function in Semiconductors" published in International Journal of Engineering Science and Innovative Technology (IJESIT) ISSN: 2319-5967, ISO 9001:2008 Certified, Volume 4, Issue 4, July 2015, Impact factor-1.913

DEPARTMENT: CA

International Seminar / Conference

- **Dipankar Chatterjee** ,**Somnath Sarkar**, "Comparison of Different Intrusion Detection Techniques and a Proposed Technique for Detecting and Eliminating Intruders in MANET", International Conference on Computing, Communication and Manufacturing (ICCCM-2014) , MCKVIE, Liluah, Howrah,22-23 December 2014.

International Journals

- **PrajnaParamita Ray, Dola Saha**, "Architectural Classification of Inter Cloud & Approaches" in International Journal Advanced Research in Computer Science and Software Engineering (IJARCSSE, ISSN: 2277-128X), Volume- 5,No-5,pp-801-807, May 2015

- **PrajnaParamita Ray**, "A New Access Control Model in Cloud Computing" in International Journal Advanced Research in Computer Science and Software Engineering (IJARCSSE, ISSN: 2277-128X), Manuscript accepted.

- **Dipankar Chatterjee**, "Biometric Ticketing System for Railway" in International Journal of Latest Trends in Engineering and Technology (IJLTET, ISSN: 2278-621X), Vol-4,No-3, pp- 90-93, September 2014.

- **Dipankar Chatterjee**, "Face Recognition Ticketing System Using Combination of PCA,PIFS, DCT and Template Matching Correlation" in International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE, ISSN: 2277-128X), Vol-4,No-10, pp- 233-236, October 2014

- **Dipankar Chatterjee** " Comparision Between Different Combination Techniques for Face Recognition and A Proposed Ticketing System using Face Recognition" in International Journal of Advancements in Research &Technology(IJoART, ISSN:2278-7763), Vol-3 No-10 . October 2014

- **Chiranjib Dutta, Swati Sarkar,** "An Efficient Implementation of Digital Signature" in International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE, ISSN: 2277-128X), Vol-5,No-2, pp- 452-457, February 2015

- **Somalina Chowdhury, Sisir Kumar Das, Annapurna Das**, "Application of genetic algorithm in computer network security ", International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE, ISSN(ONLINE) 2320-9801, ISSN(PRINT) 2320-9798), Vol-3, No-1, pp- 274-280,January 2015.

- **Somalina Chowdhury, "**Cryptographic technique through hexagonal path using genetic algorithm**" ,**International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE, ISSN(ONLINE) 2320-9801,ISSN(PRINT) 2320-9798), Vol-3, No-3, pp-2332-2338, March 2015

- **Sharmistha Dey,** "Survey on Importance of Context aware Security in Distributed Computing Environment Like Cloud", International Journal of Advanced Research in Computer Science and Software Engineering[ISSN: 2277 128X],Vol 5,Issue 4,pp-1077-1084, April 2015

- **Santanu Kr Sen, Sharmistha Dey,** "SVT Matrix – An innovative approach towards cloud security"(Manuscript accepted for publication) for May 2015 Issue in International Journal of Computer Science Issues(IJCSI)

- **Dola Saha, PrajnaParamita Ray,** "Sentiment Analysis on Tweet Data Sets using Data Mining

Techniques" in International Journal Advanced Research in Computer Science and Software Engineering (IJARCSSE, ISSN: 2277-128X), Volume- 5,No-8,pp-932-937, (accepted) 2015

2013-14

DEPARTMENT: CSE

International Seminar / Conference

- **Dr. Santanu Kumar Sen :** "A DVR- based Routing Protocol with Special Neighbours for Mobile Ad-Hoc Networks" IEEE International Symposium on Computational and Business Intelligence (ISCBI 2013) New Delhi
- **Dr. Santanu Kumar Sen :** "Enhancing the Performance of AODV using Node Remaining Energy and Aggregate Interface Queue Length" IEEE International Symposium on Computational and Business Intelligence (ISCBI 2013)
- **Dr. Santanu Kumar Sen :** "Comparison of Performance Metrics of DVR protocol using Networks Node Remaining Energy and Aggregate Interface Queue Length" Elsevier Seventh International Conference on Communication Network (ICCN 2013)
- **Moloy Dhar**: "Identification of Human Using Image Parsing Technique" CIMTA-201327-28 September, 2013.
- **Mrs. Srabani Kundu:**SMAC: Simulation for Analysis of Vehicles Collision in WSN, 2nd International conference of Computing Cmmunication and Sensor Network, CCSN 2013.
- **Ankur Mondal**: "A Multi-Method Search with Migrating Population for Real Parameter OptimizationComputational Intelligence: Modeling, Techniques and Applications" (CIMTA 2013)978-93-5126-672-32 , 27-28 Sept,2013

International Journal

- **Sourish Mitra, Sayani Chandra Bidyutmala Saha, Rafiqul Islam, Nirupam Saha : "**Continuous And Random Dropping Based Distributed Reflection Denial Of Service Attack (CARD-DRDOSA)

Detection, Control And Prevention Technique In Manet International Journal of Computer Networking, Wireless and Mobil Communications (IJCNWMC) ;ISSN (Print):2250-1568;E-ISSN:2278–9448;Impact,Factor(JCC):5.2749[statusZ:-International Journal]September,2013.

- **Sourish Mitra, Rafiqul Islam: "**A Modified Algorithmic Approach of DSDV Routing Protocol for Wireless Ad Hoc Network"IOSR Journal of Computer Engineering (IOSR-JCE)e-ISSN: 2278-0661, p-ISSN: 2278-8727,Volume 14,Issue 4 (Sep.Oct. 2013), PP 49-54. .impact factor:1.686
- **Moloy Dhar, Sayani Chandra, Sourish Mitra, Sandip Tigga: "**Selection of Master Station and Synchronization of Transmission in Quantum Cryptography: A Novel Approach" (IJCSEITR) International Journal of Computer Science Engineering and Information Technology Research; [status:- International Journal] ISSN (Print): 2249-6831; E-ISSN:2249-7943(Sep.Oct. 2013). .impact factor:6.8785
- **Moloy Dhar** : "Identification of Human and Non-Human objects using Image Annotation Techniques" International Journal ,Volume 3, Issue 9, September 2013. .impact factor:1.3
- **Dr. Santanu Kr. Sen, Poojarini Mitra , Debraj Roy,Shirsankar Basu** "Loop Free Distance Vector Routing to Avoid Count-To-Infinity", International Journal of Advanced Computer Technology (IJACT), ISSN: 2319-7900, Vol.3, No.2, Page: 35–40, May, 2014,impact factor: 1.5.
- Sourish Mitra :"Route maintenance and Scalability improvement of DSR, based on Relay node identification after locating Link-failure over MANET" International Organization Of Scientific Research Journal of Computer Engineering (IOSRJCE) e-ISSN: 2278-0661, p- ISSN: 2278-8727.Volume 16, Issue 3, Ver. III,PP 21-27, May-June, 2014,impact factor: 1.686.
- **Dr. Santanu Kr. Sen,Poojarini Mitra, Debraj Roy, Sinthia Roy, Shirsankar Basu: Design** and Development of an Enhanced Address Resolution Protocol to Overcome Security Threats, International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE) ISSN:2277128X ,Vol.4, Issue 4, Page: 441 – 446, May, 2014,impact factor: 2.08.
- **Dr. Santanu Kr. Sen,Debraj Roy,** Design of Quantifiable Real-Life Security Matrix For Cloud ComputingInternational Journal of Engineering Sciences & Research Technology (IJESRT), ISSN: 2277-9655, May, 2014,impact factor:1.5.

- **Dr. Santanu Kr. Sen , Ipsita Saha**:An Innovative Approach to Devise Security Matrix to Measure Impact of Attack Vectors in Cloud Networks International Journal (IJARCSMS) 12 pages (42-53) Volume 2, Issue 4,May,2014,impact factor:3.5

DEPARTMENT: IT

International Seminar / Conference

- **Baisakhi Das, Nirmalya Sundar Maiti, Sukanta Das Mousimi Saha and Biplab K Sikdar ;** Design of an Efficient Scheme for Data Migration in Chip Multiprocessors, 4th International Symposium on Electronic System Design, Dec 12 – Dec 13, 2013; Singapore. Pp 167-171

- **Baisakhi Das, Nirmalya Sundar Maiti, Sukanta Das and Biplab K Sikdar;** An Efficient Scheme For Data Block Migration In Tiled CMPs Cache System; IEEE Indicon Dec 13 – Dec 15, 2013 , IIT Bombay.Pp 1-6

- **Sudeep Ghosh, Hafizur Rahaman**"Analysis of 2-Dimension Mesh Topology Of Network-On-Chips Architecture Using Odd-Even Routing Algorithm & Buffer Depth"International Conference On advances in Computing and Information Technology- ACIT 2014, 4th to 5th January 2014 Bangkok, Thailand.

International Journal

- **Sudeep Ghosh,Mandira Banik,** "A Deadlock free Algorithm for NoC based System Using Distance Class Approach", Journal of Computer Science Engineering & Technology, ISSN: 2231-0771. Vol 3, Issue 6 pp-215-219, 2013. IMPACT FACTOR: 1.35

- **Mandira Banik, Sudeep Ghosh,** "Railway Network Modelling Using Petri Nets" Journal of Computer Science Engineering & Technology, ISSN: 2231-0771. Vol 3, Issue 7 pp-249-255. IMPACT FACTOR: 1.35

- **Sulata Mitra, Trishita Ghosh**,"Congestion Control and Revocation of Misbehaving Vehicles in VANET Journal of Network and Innovative Computing(JNIC)ISSN2160-2174,vol1 (2013) pp 43-54

DEPARTMENT: AEIE

National Seminar / Conference

- **Dibyendu Sur, Ashik Paul,** "Development and Validation of Neural Network Based TEC Models across Diverse Longitudes in the Low Latitude", 18th National Space Science Symposium, Dibrugarh, January 29- February 1, 2014

- "Development of a Remote Controlled Power Saver using Mobile Phone" by **Dibyendu Sur, Suman Roy,** Sanhati Choudhury, Sourav Sen, Nikita Ganguly, National Conference on Emerging Technology and Applied Sciences (ncetas 2014) modern institute of engineering & technology Bandel, Hooghly-712123, West Bengal, India February 15 – 16, 2014

- **Dibyendu Sur, Soumika Ghosh, Sarmistha Ray, Sayani Sengupta, Sucheta Routh, Saborni Das, Shilpi Banerjee** "Digital password door lock security system" National seminar on Advances of Security Issues in Modern Communicating Network, July 19, 2013

International Seminar / Conference

- **Dibyendu Sur, Ashik Paul,** "Performance Analysis of Neural Network based TEC Models across Diverse Longitudes" Regional Conference on Radio Science, Pune, January 2-5, 2014.

International Journal

- **Dibyendu Sur, Ashik Paul,** "Comparison of Standard TEC models with a Neural Network based TEC model using Multistation GPS TEC around the Northern Crest of Equatorial Ionization Anomaly in the Indian Longitude Sector during the Low and Moderate Solar Activity Levels of the 24th Solar Cycle",Advances in Space Research (2013), volume 52, Issue 5, page 810-820, published on 1st September 2013 (IF 1.183)

- "Development of a Remote Controlled Power Saver using Mobile Phone" by **Dibyendu Sur**, Suman Roy, Sanhati Choudhury, Sourav Sen, Nikita Ganguly, special issue, International Journal of Innovative Research in Science Engineering & Technology (IJIRSET) (IF: 1.672)

DEPARTMENT: FT

National Seminar / Conference

- **Dr.Subhajit Ray** : Microencapsulation-A Novel Tool for Enhancement of viability and Applicability of Probiotics, National Seminar on Innovations in Dairy Processing in India-Post Operation Flood Scenario, Faculty of Dairy Technology, West Bengal University of Animal and Fishery Sciences, Mohanpur Campus, Nadia, West Bengal-741252, India14 & 15th March 2014.

- **Dr.Anju Paul,** Abstract published on "Herbal Yoghurt- A Value Added Food" at National Seminar on Innovations in Dairy Processing in India- Post Operation Flood Scenario, organized by Faculty of Dairy Technology, W.B.U.A.F.S., Mohanpur, Nadia, held during 14-15th March, 2014**.**

- **Dr.Chaitali Chakraborty :**Rheological Characterization of Potato Powder based Rasogolla, National Seminar on Innovations in Dairy Processing in India- Post Operation Flood Scenario, organized by Faculty of Dairy Technology, W.B.U.A.F.S., Mohanpur, Nadia, held during 14-15th March, 2014**.**

- **Dr.Sunita Adhikari :**Poster presentation on "Production of Soy based Probiotic Ice cream" on March-14-15, 2014. National Seminar on "Innovations in Dairy Processing in India-Post operation flood scenario".

- **Amit Kumar Barman :**Poster presentation on "Whey Based Herbal Beverage:A Therapeutic Drink" on March-14-15, 2014. National Seminar on " Innovations in Dairy Processing in India-Post operation flood scenario".

- **Amit Kr.Barman, Dr.Chaitali Chakraborty, Dr.Sunita Adhikari, Dr.Kakali Bandyopadhyay**. Abstract published in the Seminar Proceedings on the topic **"Shelf-life analysis of Whey Based Banana Herbal (Mentha arvensis) Beverage"**, In the Intellectual Property Right Congress,15th Year Celebration of Patent Information Centre, Organized jointly by Patent Information Centre (PIC) , West Bengal State Council of Science & Technology (WBSCST) ,DST-Govt.of West Bengal &

Patent Facilitating Centre (PFC),Technology Information Forecasting & Assessment Council (TIFAC),DST-Govt.of India,held during 24th -25th September, 2013.

- **Dr.Chaitali Chakraborty**, **Diptanjan Banerjee, Dr.Sunita Adhikari, Amit Kr.Barman, Dr.Kakali Bandyopadhyay** : Paper presented and Abstract published in the Seminar Proceedings on the topic **"Tulsi –An Alternative Medicine".** In the Intellectual Property Right Congress,15th Year Celebration of Patent Information Centre, Organized jointly by Patent Information Centre (PIC) , West Bengal State Council of Science & Technology (WBSCST) ,DST-Govt.of West Bengal & Patent Facilitating Centre (PFC),Technology Information Forecasting & Assessment Council (TIFAC),DST-Govt.of India,held during 24th -25th September, 2013.

- **Diptanjan Banerjee, Sayak Saha, Dr.Chaitali Chakraborty , Amit Kr.Barman**. : Paper presented and Abstract published in the Seminar Proceedings on the topic **"Ginger: A Key to Good Health".** In the Intellectual Property Right Congress,15th Year Celebration of Patent Information Centre, Organized jointly by Patent Information Centre (PIC) , West Bengal State Council of Science & Technology (WBSCST) ,DST-Govt.of West Bengal & Patent Facilitating Centre (PFC),Technology Information Forecasting & Assessment Council (TIFAC),DST-Govt.of India,held during 24th -25th September, 2013.

- **Kiran Moni Deb Nath, Amit Kr.Barman, Dr.Sunita Adhikari, Dr.Chaitali Chakraborty, Dr.Kakali Bandyopadhyay :** Abstract published in the Seminar Proceedings on the topic **"Studies on Utilization of Jack Fruit Seed Flower for Cookies Formulation"** In the Intellectual Property Right Congress,15th Year Celebration of Patent Information Centre, Organized jointly by Patent Information Centre (PIC) , West Bengal State Council of Science & Technology (WBSCST) ,DST-Govt.of West Bengal & Patent Facilitating Centre (PFC),Technology Information Forecasting & Assessment Council (TIFAC),DST-Govt.of India,held during 24th -25th September, 2013.

- **Amit Kr.Barman, Dr.Chaitali Chakraborty, Dr.Kakali Bandyopadhyay , Dr.Sunita Adhikari** : Paper presented and Abstract published in the Seminar Proceedings on the topic **"Studies on the production of Soycurd and Soy Probiotic Icecream"** In the Intellectual Property Right Congress,15th Year Celebration of Patent Information Centre, Organized jointly by Patent Information Centre (PIC) , West Bengal State Council of Science & Technology (WBSCST) ,DST-Govt.of West Bengal & Patent Facilitating Centre (PFC),Technology Information Forecasting & Assessment Council (TIFAC),DST-Govt .of India ,held during 24th -25th September, 2013.

- **Debasree Ghosh, Prof. Parimal Chattopadhyay**: Abstract published in the Seminar Proceedings on the topic **"Fortification of Cow Milk with β-Carotene Producing Sweet Potato".** In the Intellectual Property Right Congress,15th Year Celebration of Patent Information Centre, Organized jointly by Patent Information Centre (PIC) , West Bengal State Council of Science & Technology

(WBSCST) ,DST-Govt.of West Bengal & Patent Facilitating Centre (PFC),Technology Information Forecasting & Assessment Council (TIFAC),DST-Govt .of India ,held during 24th -25th September, 2013.

- **Dr.Subhajit Ray** : Paper presented and Abstract published in the Seminar Proceedings on the topic **"Development of Novel Functional Beverage by Formulating Carrot Juice & Fermented Dairy Product"**. In the Intellectual Property Right Congress,15th Year Celebration of Patent Information Centre, Organized jointly by Patent Information Centre (PIC) , West Bengal State Council of Science & Technology (WBSCST) ,DST-Govt.of West Bengal & Patent Facilitating Centre (PFC),Technology Information Forecasting & Assessment Council (TIFAC),DST-Govt .of India ,held during 24th -25th September, 2013.

National Journal

- **Dr.Kakali Bandyopadhyay , Dr.Anju Paul , Dr.Sunita Adhikari :** Characterization of Pumpkin Seed and Pumpkin Seed Oil accepted for Publication in April,2014 and to be published in Sep-Nov,2014 issue., Beverage & Food World.

- **Dr.Kakali Bandyopadhyay , Dr. Chaitali Chakraborty :** Development of Healthy Appetizer Using Sweet Potato Powder as Functional Ingredient" (Accepted and will be published in June, 2014 issue), **Beverage & Food World.**

- **Dr. Subhajit Ray,Dr. Anju Paul,** "Development of a process for the production of herbal ice cream and evaluation of its Quality" in **Journal of Beverage & Food World**, July 2013, Vol.40(7), pp 40-43, **ISSN: 0970-6154**

- **Dr. Subhajit Ray,** "Studies on the Development of Osmodried Fruits Viz. Pineapple, apple,bananas etc. and Determination of their Quality Characteristics, **Journal of Beverage & Food World**, September 2013,Vol 40 (9), pp no. 25-29,2013,**ISSN: 0970-6154**

International Journal

- **Dr.Kakali Bandyopadhyay , Dr.Chaitali Chakraborty : "**Fortification of Mango Peel and Kernel Powder in Cookies Formulation", 2(12): 661-664.(May, 2014) Journal of Academia and Industrial Research (JAIR**).**

- **Dr.Subhajit Ray:** Sources, Characterization, Synthesis and Utilization of Microbial Surface Active Biomolecules: A Review, The Journal of Bioprocess Technology, Vol.99,January/2014/360-388.

- **Dr. Sunita Adhikari**, **Prof. Parimal Chattopadhyay** : "Biosorption of Malathion Using Dry Cells of Bacillus Species S14 In A Packed Bed Column ReactorJournal of Chemical Speciations and Bioavailability, July,2013, 0954-2299,2013

DEPARTMENT: ECE

International Journal

- **Arun Kumar Mondal**, "Optimization of Transmission Ranges and Improve Information Efficiency of MIMO Equipped Mobile Ad hoc Network in Presence of Fading" **International Journal** of Computer and Technology, Vol. 10, Issue 5,ISSN 2277-3061, pp.1585-1591,August **2013**

- **Antara Ghosal,Anurima Majumdar,Dr. Sisir Kr Das,Dr. Annapurna Das,** "Analysis of a class of multi-frequency microstrip antenna for mobile handset" IJECSE,2014,ISSN- 2277-1956ISSN 2277-1956/V3-N2-Pg No.108-115.

- **Aditi Sengupta,Dr. Sisir Kumar Das,Dr. Annapurna Das**, "Analysis of Extremely Low VSWR Characteristics of Feed Network of Rectangular Microstrip Patch Antenna" International Journal of Electronics Communication and Computer Technology, Pg no : 623-627 Volume 4 Issue 3.

DEPARTMENT: ASH

National Seminar / Conference

- **Dr. Indrajit Bose**: *"Speak Like a Pro"* TEQUIP II Sponsored National Workshop on "Facing the Challenges of Teaching English in Engineering Colleges" held atat CEM, Kolaghat on 25th August. 2013

- **Mr. Shantanu Chakraborty**: My Students' Pluperfect Presentation In Transcending Boundaries; English Language in Technical Education [ELITE 2013] held at GIMT, Krishnanagar

National Journal

- **Dr. Indrajit Bose :** Are You Listening? Choosing Listening Materials for ESP, Vol 10 pp. 49-53 Rajasthan ELTI JournalVol 10 (September 2013 issue)

International Seminar / Conference

- **Mr. Shantanu Chakraborty :** The Language laboratory in Transcending Boundaries; English Language in Technical Education [ELITE 2014] held at GIMT, Krishnanagar

International Journal

- **Ms. Sucharita Chakraborti:**Connectedness and its Applications, Vol. 8, 2013, no. 38, 1889 – 1901 International Mathematical Forum.ISSN:1312-7594,impact factor:0.323

- **Ms. Sucharita Chakraborti:** On Caccioppoli-Kannan Type Fixed Point Principle in Generalized Metric Spaces, Vol. 8, 2013, no. 20, 1001 – 1006 International Mathematical Forum. ISSN:1312-7594,impact factor:0.323

- **Ms. Sucharita Chakraborti:**a fixed point theorem of caccioppoli – kannan type on a class of generalized metric spaces, Accepted for publication in March, 2014 International Mathematical Forum. . ISSN:1312-7594,impact factor:0.323

- **Dr. Indrajit Bose:** Connecting British and American Modernism: Narrative Strategies in the Works of Stephen Crane and Conrad, n. pag. Online JUSAS Online1st issue (July 2013).

- **Mr. Mainak Debnath:** Catalytic oxidation of aromatic hydrocarbons by mono-oxidoalkoxidovanadium(V) complexes of ONNO donor ethylenediaminebis(phenolate) ligands." 63 (2013) 189–198 *Polyhedron.*impact factor:1.81.

- **Mr. Mainak Debnath:** A novel thermally stable hydroperoxo–copper(II) complex in a Cu(N2O2) chromophore of a potential N4O2 donor Schiff base ligand: synthesis, structureand catalytic studies."2013, 42, 13210 *Dalton Trans.* impact factor:3.84

- **Mr. Gautam Mondal & Mr. Anup Kumar Thander :** Numerical comparison of multi-step iterative methods finding roots of nonlinear equations Vol.4 No. 8149-152 in International Journal of Mathematics Trends and Technology.ISSN:231-5373, impact factor:0.462

DEPARTMENT: CA

International Journal

- **Dr Santanu Kumar Sen,Sharmistha Dey,** "An Investigation towards Security Threats for Cloud computing", International Journal of Engineering Sciences and Research Technology, paper accepted for publication, ISSN No 2277-9655,2013.impact factor:1.852

- **Dr Santanu Kumar Sen,Sharmistha Dey**, "A Novel Concept of Security Matrix to Measure Impact of Attack vectors in Cloud Networks" , published on International Journal of Advanced Research in Computer Science and Software Engineering;[status: International Journal],paper accepted for publication,2013 [ISSN No 2277-128].impact factor:2.080

- **Sharmistha Dey,Sourav Auddy, Sonali Saha**," A Survey on Security Issues of Inter Cloud Computing", published on International Journal of Advanced Research in Computer Science and Software Engineering[status: International Journal] Volume 3, Issue 11, November 2013 [ISSN: 2277 128X] impact factor:2.080

- **Somalina Chowdhury**," A New Combinational Approach Using Different Encryption Technique", published on International Journal of Advanced Research in Computer Science and Software Engineering[status: International Journal] Volume 3, Issue 8, August 2013 [ISSN: 2277 128X] impact factor:2.080

DEPARTMENT: FMS

International Journal

- **Dr. Rajdeep Bakshi**, Professor and HOD, "Study on Brand Positioning of Motorcycles, Perspectives in Management", Vol. 03, No 02, PP 123-129, ISSN No. 0974 7095. IMPACT FACTOR: 0.183

2012-13

DEPARTMENT: CSE

National Seminar / Conference

- **Mr. Sandip Tigga, Mr. Sourish Mitra :** *"Performance Analysis of TCP Variants in IP Network"* National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Dr. Santanu Kr. Sen, Ms. Bidyutmala Saha, Ms. Mandira Banik :** *"Fingerprint Authentication - The Most Popular Biometric Tool"* National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Dr. Santanu Kr. Sen**, **Ms. Sayani Chandra Ms. Ipsita Saha :**"*Security through Obscurity An Approach to Steganography*" National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Ms. Sanghamitra De, Mr. Sourav Bhattacharjee, Mr. Rudradip Mishra:** "Combinatorial approaches to finding subtle signals in DNA sequences", National Conference on Recent Trends on Bio-Computing (RTBC-2013), BITM, 14-15, March, 2013.

- **Santanu Kr. Sen :**"A Study on Position-based Routing Protocols for Mobile Ad Hoc Networks"National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Moloy Dhar**"Identification of Human Using Image Parsing Techniques"National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Srabani Kundu, Sinthia Roy, Poojarini Mitra:** "A Distributed Approach For Energy Hole" National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Sourav Ganguly, Santanu Kr. Sen:**"A Comparative Study between Sobel Operator and Canny Edge Detector Algorithms" National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Dr. Santanu K. Sen:**"A Survey on Cloud Computing Security Threats" National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Dr. Santanu K. Sen:** DVR- based Hybrid Routing Protocols in mobile Ad hoc Networks: Applications and Challenges National Conference on Research and Higher Education Information Technology (RHEIT-2013), Assam University,Feb,2013
- **Palash Dutta, Moloy Dhar, Rafiqul Islam:**"An Advanced Approach for Real-time Matching Algorithm of Navigation using Edge Detection" National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Ankur Mondal, Palash Dutta, Debraj Roy:**"Region Marking of Face and Eye Using Skin Tone Segmentation"National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Moloy Dhar**: "Identification of Objects Using Image Annotating Techniques" National Seminar,NSSAMCS-2013,(page No.-100),2013.

International Seminar / Conference

- **Mrs Srabani Kundu**, *In-Network Area Estimation and localization in Wireless Sensor Networks*, GC'12 Workshop: The 7th IEEE International Workshop on Heterogeneous, Multi-Hop, Wireless and Mobile Networks.

- **Dr. Santanu Kumar Sen :** "Effective Performance Analysis of DVR-based Routing Protocols with Random Way Point in MANET" International Conference on Computer Networks and Information Technology (ICCNIT 2013), Bangkok, Thailand pg-29-30, June,2013

- **Moloy Dhar** : "Identification of Human Using Image Parsing Techniques: a Novel Approach International Conference on Computation and Communication Advancement-2013(IC3A-2013),TMH,ISBN(13): 978-1-25-906393-0 ,ISBN(10): 1-25-906393-3 11-12 Jan,2013

- **Ipshita Saha, Sayani Chandra**: "Classifiers for Feistel ciphers with two Different Feistel Functions" International Conference on Computation and Communication Advancement 2013(IC3A) on."-Page 83-87,11-12th January,2013.

- **Ms. Ipsita Saha. Ms Srabani Kundu :**SMAC:Simulation for Analysis of Vehicles Collision in WSN, 2nd International conference of Computing Cmmunication and Sensor Network, CCSN 2013.

- **Ankur Mondal** : "Modified estimation of Distribution algorithm with differential mutation for constrained optimization" **S Debchoudhury, S Biswas, S Kundu, S Das, AV Vasilakos, Ankur Mondal** Evolutionary Computation (CEC),20-23 june 2013 IEEE Congress on, 1724-1731.

International Journal

- **Santanu Kumar Sen**: "DVR-based MANET Routing Protocols Taxonomy", International Journal of Computer Science & Engineering Survey (IJCSES) Vol.3, No.5, October 2012. Impact factor: 1.187

- **Santanu Kumar Sen** "A Review of DVR-based Routing Protocols for Mobile Ad Hoc Networks", International Journal of Computer Applications (0975–8887) Dec,2012.

- **Arnab Mitra**, **Santanu K. Sen**, "An Approach to Detect Black Hole Nodes in Wireless Network Using Cellular Automata" International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSE), Volume 2, Issue 9, September 2012 ISSN: 2277 128X, pp 210-219. Impact factor: 2.080

- **Mr. Moloy Dhar:** Content Based Image Retrieval: A Novel Approach for Image Recognition, International Journal for Computer Science & Informatics, 2012..impact factor:1.6

- **Sourish Mitra, Sayani Chandra Bidyutmala Saha**: "Generate an Encryption key by using Biometric Cryptosystems to Secure Transferring of Data over a Network" ,International Organization of Scientific Research (IOSR) [status:- International Journal](Published)e-ISSN:2278-0661P-ISSN:2278-8727 Volume 12, Issue 1(May-June, 2013), PP 16-22,May,2013..impact factor:1.686

- **Ms. Sinthia Roy:** "An Effective Use of Web Based E-Learning System in Educational Institution", IJERT, June 2013, vol 2 Issue 6. .impact factor:1.76

DEPARTMENT: IT

National Seminar / Conference

- **Sudeep Ghosh, Sahana Biswas, Subhadeep Chowdhury, Prasann Kumar,** "Performance Analysis of 2 Dimension Mesh Topology Network-On-Chips with Odd-Even Routing Algorithm" National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.

- **Chowdhury Md. Mizan, SayanKhasnabis, SubhajitRaha, SayanChaudhuri, Joydeep Paul, SushovanSen Sharma, Anudeep Ghosh,** "A Secured Approach to RSA Algorithm using Enhanced Encryption Technique" National Seminar on Security Aspects in Modern Communication System (NSSAMCS 2013),pp 17-19,2013

- **Chowdhury Md. Mizan, Laboni Chakraborty, SayakDas, SusmitaMitra, Indrajit Mondal "**Finding a shortest path in lattice structure by using OLAP technology", National Seminar on Security Aspects in Modern Communication System (NSSAMCS).pp 59-62,2013

International Seminar / Conference

- **Trishita Ghosh,Sulata Mitra** *" Congestion Control by Dynamic Sharing of width among Vehicles in VANET'* 12th International Conference on Intelligent Systems Design and Applications (ISDA 2012), Cochin. 27-29 Dec 2012.

- **Baisakhi Das**, Bibhash Sen, Divyam Saran and Biplab K Sikdar; Identification of Power Hungry Unit In a Processor with Faulty Predictor; IEEE International Conference on Circuits and Systems - ICCAS2012; Oct 3-5, 2012; Kuala Lumpur, Malaysia.

International Journal

- Sudeep Ghosh, Hafizur Rahaman: " A General Purpose Simulator for Network-On-Chips" Journal of Information Systems and Communication ,ISSN: 0976-8742 & E-ISSN: 0976-8750, Volume 3, Issue 1, 2012, pp.-174-178.IMPACT FACTOR: 7.14
- **Suparna Karmakar, Sayani Chandra,**"An Approach for Ensuring Security and its Verification "International Journal of Computer Science Engineering (IJCSE)vol-02, No-03, May,2013. ISSN: 2319-7323. Page(s): 42-49,2013

DEPARTMENT: AEIE

National Seminar / Conference

- **Sudip Kuila, Dibyendu Sur,** "Rolling Element Bearing Fault Classification automatically using Wavelet Packet Decomposition and Artificial Neural Network"National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Sudip Kuila, Abhishek Bhowmik,**"Parameter Identification of Permanent Magnet Synchronous Motor Using Special Optimization Technique"National Seminar on Security Aspects in Modern Communication System (NSSAMCS-2013) March 5-6, 2013.
- **Dibyendu Sur, Rajanya Chakraborty, Anirban Sastri, Mayuresh Roy, Tanumay Ghosh, Abhishek Ghosh and Sandeep Chowdhury.** "An Approach to Wireless Power Transfer" 9th All India People Technology Congress, February 8-9, 2013
- **Dibyendu Sur ,Ranjan Tarafdar, Madhulina Sur** "Water Level Controller Using 555 Timer IC" 9th All India People Technology Congress, February 8-9, 2013

- **Dibyendu Sur, Soumika Ghosh, Sarmistha Ray, Sayani Sengupta, Sucheta Routh, Saborni Das, Shilpi Banerjee**, "Automatic Password Based Door Lock System" 9th All India People Technology Congress, February 8-9, 2013

- **Dibyendu Sur, Soumika Ghosh, Sarmistha Ray, Sayani Sengupta, Sucheta Routh, Saborni Das, Shilpi Banerjee** "Password based automatic door lock system" March 22-23, Academic Meet 2013

International Seminar / Conference

- **Dibyendu Sur**"Neural Network Based TEC Model Using Multistation GPS-TEC Around The Northern Crest Of Equatorial Ionization Anomaly" (accepted), at 5th International Conference on Computers and Devices for Communication, CODEC-2012, December 17-19, 2012

- **Bapita Roy,** "Technology CAD for Anti-reflecting Coating Engineering on Silicon Solar Cells" at CCSN-2012 International Conference on Computing, Communication and Sensor Network At PIET, Orissa organised by Collaboration with Institution of Engineers, Rourkela, Orissa on November 22-23, 2012

DEPARTMENT: FT

National Seminar / Conference

- **Amit Kumar Barman : "**Antioxidative Potential of Probiotic: An Overview "AICTE sponsored National Seminar on Recent Advances in the development of Natural Antioxidants on 12-13th March 2013.

- **Amit Kumar Barman :** Development of Fermented Food from Soy milk and Peanut Milk of FOSET: ACADEMIC MEET - 2013 held at Modern Institute of Engineering & Technology (MIET), Rajhat, , on 23rd March, 2013.

- **Dr.Subhajit Ray :**Published Full Paper on Natural Antioxidants as a Potential Marker for Food stability and Health Benefit-A Review in AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants to be held on 12th&13th March 2013 organized by Department of Food Technology.,GuruNanak Institute of Technology,Sodepur,Kolkata,West Bengal, India.

- Dr.Kakali Bandyopadhyay : Utilization of Mango Peel Powder as a source of Phenolic compounds in Biscuit formulation, AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants, Organized by the Department of Food Technology, Gurunanak Institute of Technology, 12th-13th March, 2013.

- **Dr. Kakali Bandyopadhyay , Dr.Sunita Adhikari , Dr.Anju Paul :** Antioxidant Capacity of Pumpkin Seed Oil, **AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants,**Organized by the Department of Food Technology, Gurunanak Institute of Technology, 12th-13th March, 2013 pp no.177.

- **Dr. Kakali Bandyopadhyay :** Mango Peel + Kernel+Polyphenols++, **AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants,** Organized by the Department of Food Technology, Gurunanak Institute of Technology, 12th-13th March, 2013.

- **Dr. Subhajit Ray :**Published Abstract for Poster Presentation on Effect of Natural Antioxidant on Human Health in AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants to be held on 12th & 13th March 2013 organized by Department of Food Technology, GuruNanak Institute of Technology, Sodepur, Kolkata, West Bengal, India.

- **Dr.Subhajit Ray,Dr.Chaitali Chakraborty** : Published Abstract for Poster Presentation on Flavonoids as Natural Antioxidants in AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants to be held on 12th & 13th March, 2013 organized by Department of Food Technology., GuruNanak Institute of Technology, Sodepur, Kolkata, West Bengal, India.

- **Dr.Subhajit Ray :**Published Full Paper on Effect of β-carotene on value addition of biscuit in AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants to be held on 12th & 13th March 2013 organized by Department of Food Technology. GuruNanak Institute of Technology,Sodepur,Kolkata,West Bengal, India.

- **Dr.Sunita Adhikari,Prof.Parimal Chattopadhyay** : Abstract published on Studies on the Extraction of Lycopene from a cheap source at AICTE sponsored National Seminar on Recent advances in the development of Natural Antioxidants organized by Dept. of FT,GNIT on 12-13th March, 2013, pp no.86-88.

- **Dr.Sunita Adhikari,Prof.Parimal Chattopadhyay,** Abstract published on Studies on the Estimation of Antioxidants in locally available fruits at AICTE sponsored National Seminar on Recent advances in the development of Natural Antioxidants organized by Dept. of FT,GNIT on 12-13th March, 2013, pp no116-119.

- **Dr. Sunita Adhikari,** Abstract published on Application of Rosamary Oleoresin as natural antioxidant in foods.at AICTE sponsored National Seminar on Recent advances in the development of Natural Antioxidants organized by Dept. of FT,GNIT on 12-13th March, 2013 pp no.147.

- **Dr. Sunita Adhikari,** Review paper published on Enzymes as Natural Antioxidant : A Review at AICTE sponsored National Seminar on Recent advances in the developmentof Natural Antioxidants organized by Dept. of FT,GNIT on 12-13th March, 2013, pp no.75-78.

- **Dr. Anju Paul :** "Triphala- A Power House of Antioxidant" in the Seminar Proceedings of AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants, held on 12th-13th March,2013, in FT Dept. GNIT.

- **Dr. Anju Paul :** "Pomegranate-An Amazing Source of Natural Antioxidant" in the Seminar Proceedings of AICTE Sponsored National Seminar on Recent Advances in the Development of Natural Antioxidants, held on 12th-13th March,2013, in FT Dept. GNIT.

- **Dr. Chaitali Chakraborty :**Abstract published on the topic **' Development of Herbal Poyphenol Enriched Whey Drink'**. SamyeetaGhosh , Puja Roy, Dr.ChaitaliChakraborty in 41st Dairy Industry Conference on a theme "Global Dairy Industry and Food Security" on March 14-16, 2013 at Mumbai organized by Indian Dairy Association (West Zone).

- **Dr. Chaitali Chakraborty :** Abstract published on the topic **'Herbal Whey Drink: A Multipurpose Aid To Health '**.SamyeetaGhosh , Puja Roy, Dr.ChaitaliChakraborty in 4th Inter Engineering College Academic Meet on March 22-23, 2013 at Modern Institute Of Technology, Kolkata, W.B organized by FOSET.

- **Dr. Chaitali Chakraborty :** Abstract published on the topic **'Antioxidant and Antimicrobial Activity of Indian Medicinal Herbs '**.Samyeeta Ghosh , Puja Roy, Dr.Chaitali Chakraborty in AICTE sponsored National Seminar on a theme"Recent Advances in the Development of Natural Antioxidants" on March 12-13, 2013 at Food Technology Department, Gurunanak Institute of Technology, Kolkata, W.B.

- **Dr. Chaitali Chakraborty :** Paper published on the topic **'Preparation and Characterization of Herbal Whey Drink '**.Moumita Khanra, Samyeeta Ghosh , Puja Roy, Supriyo Ghosh, Dr.Chaitali Chakraborty in AICTE sponsored National Seminar on a theme "Recent Advances in the Development of Natural Antioxidants" on March 12-13, 2013 at Food Technology Department, Gurunanak Institute of Technology, Kolkata, W.B.

- **Dr. Subhajit Ray :** Research paper Published on "Recent Development of Health Beneficial Lactic Beverages by the Application of Lactic Acid Bacteria" inJournal of Beverage& Food World, July 2012, vol.39, No.7, pp 27-29, 32, ISSN:0970-6154.

- **Singh M. P., Giri, A., Gupta, H. R., Khetra, Y., Kanawjia, S. K. :**) Nanotechnology developments in food packaging. National Seminar on "Global opportunities & concerns in dairy and food sector" at NDRI, organized by NDRI Graduate Association, on 28-29th September, 2012, Published in Souvenir, Page: 116

National Journal

- **Dr. Subhajit Ray**, "Research paper Published onStudies on the Development of Carrot Powder fortified and its Utilization in Value added Biscuit production" in **Journal of Beverage & Food World** , February 2013, Vol.40(2), pp 52-54,**ISSN: 0970-6154**

- **Dr. Subhajit Ray,**"Studies on the Development of Pork Sausage under Refrigerated Storage Condition" in **Journal of Beverage& Food World**, May 2013, Vol.40(5), pp 31-35, **ISSN: 0970-6154**

- **Dr. Sunita Adhikari** : "Production of Mixed Fruit Wine by *Sacharomyces cerevisiae* MTCC 178 **Journal of Beverage & Food World** (National) Vol 40 (4), pp no. 42-44,2013, 0970-6154,2013.

- **Dr. Sunita Adhikari** :Paper published in the Journal Beverage & Food World entitled **Production of Mixed Fruit Wine by *Saccharomyces cerevisiae* MTCC 178** in 2013, Vol 40 (4), pp no. 42-44.

- **Dr. Chaitali Chakraborty** :Pulse Electric Field (PEF) Processing- Application in Dairy Industry. ***Beverage & Food World***. **40** (3): 42-47.

- **Mr. Amit Kumar Barman :** Potential application of high pressure carbon dioxide in food industry Association of Food Scientist & Technologist 32(1): 35-41 (2013)ISSN-0972-2610, 2013

- **Dr. Subhajit Ray :**Research paper published on "Studies on the Suitability of Kinema Powder for Biscuit Manufacturing Process" in Journal of Beverage& Food World, September 2012, vol.39, No.9, pp 21-24, ISSN: 0970-6154.

- **Dr. Subhajit Ray :** Research paper Published on Recent Development of Health Beneficial Lactic Beverages by the Application of Lactic Acid Bacteria inJournal of Beverage& Food World, July 2012, vol.39, No.7, pp 27-29, 32, ISSN:0970-6154**.**

International Journal

- **Dr. Chaitali Chakraborty** : " Lipolysis of Milk: A Review". International Journal of Agricultural sciences and Veterinary Medicine (International) 1(1): 58-74, (2013) ISSN: 2320-3730,2013.

- **Dr. Chaitali Chakraborty, , Khanra, M., Ghosh, S., Roy, P. :** Research paper published in ***Wesleyan Journal of Research*** entitled "Development of Green Tea fortified Whey Drink", 6 (1): 48-57, June, 2013. **ISSN**: 0975-1386.

- **Dr. Chaitali Chakraborty**, **Dr.Kakali Bandyopadhyay** : "Studies on Utilization of Mango Peel and Mango Kernel Powder in Biscuit Formulation" African Journal of Food Science and Technology, 4(5) pp 54-58., (2013)ISSN:2141-5455,2013

- **Dr. Subhajit Ray,** "Extracellular Microbial Lipase Production, Purification, Recovery and Immobilization: A Review." **The Journal of Bioprocess Technology** (**Internationa**l). Photon 98, 240-259, **ISJN: 6383-4392**, **Impact Index: 3.94**

- **Amit Kumar Barman,** "Potential application of high pressure carbondioxide in food industy **Association of Food Scientist & Technologist** 32(1): 35-41 (2013)ISSN-0972-2610, 2013

- **Prof. Parimal Chattopadhyay**, "Excess adsorption of Biomolecules on soft surfaces: Adsorption of DNA, proteins and lactose on fatty surfaces, **Adv. Biol, Chem**,3 , 40,2013

- **Dr. Subhajit Ray** :"Studies on the development of carrot based food products of enhanced physicochemical properties: An Overview, The Journal of Food Technology, Photon 105, 153-160, 2013, ISJN: 3852-1875, Impact Index: 3.43

- Dr. Subhajit Ray, "Chemistry and Extraction of Pectin from Citrus Residues: A Review, The Journal of Food Technology, Photon 105, 161-170, 2013, ISJN: 3852-1875, Impact Index: 3.43

- Dr. K. Bandyopadhyay, Dr. C. Chakraborty and Amit kumar Barman :Research paper published in *Wesleyan Journal of Research* entitled "Nutritional and Rheological Characterization of Potato Powder Based Indian Traditional Dairy Product: Kheer", 5 (1): 42-49, September, 2012. ISSN: 0975-1386.

- **Dr. K. Bandyopadhyay, Dr.C. Chakraborty and Amit kumar Barman** : Research Paper published entitled "Effect of Microwave and Enzymatic Treatment on the Recovery of Protein from Indian Defatted Rice Bran Meal" in the *Journal of Oleo Science*, Japan, 61 (10), September, 2012

DEPARTMENT: EE

National Seminar / Conference

- **S. Mazumder, R. Majumder, S. K. Roy**, National Conference on "Modeling of Generalized Photovoltaic Module Using Matlab/Simulink Software", in DIREC 2012, National Conference on Renewable Energy for Development of under-developed areas with particular reference to North-East India, Tezpur University Tezpur, Assam. 23-24 Nov , 2012.

- **Susovan Dutta, , R.. Mukherjee,**" Neuro-Fuzzy –Hybrid tank lebel controller in a lubricant process plant" at national conference at HETC held during 8-9 july 2012.

- **S. Majumder, R.. Mukherjee, K. Meenalochani**, National Conference on "Generalized Model of Photovoltaic Module using Matlab/Simulink Software", in TECH-MEET 2013, National Conference in Electrical Power Engineering, Electronics and Computer, **Pailan College of Management & Technology, West Bengal. 12-13 February, 2013**

- **R.. Mukherjee** , **R MAJUMDER,"**Swiching transient analysis in 33/11 KV substation" national conference at HIT held during 13-14th march 2013

DEPARTMENT: ECE

National Seminar / Conference

- **Arun Komar Mondal**, "Study of Ad Hoc Network and Implementation of MIMO Technique in MANET" National Seminar on Security Issue in Modern Communicating Network, pp. 45-48, July 2013

- **Koushik Pal,** "Authentication And Content Protection For Electronic Patient Record Through Biomedical Watermarking" 4th Academic Meet 2013, organized by 'Fellow of Scientist Engineers and Technologist,pp. 12-20, 2013**.**

- **Koushik Pal**, "Color MRI Image Watermarking: A Recent Advancement in Biomedical Field for Data Security and Authentication of EPR" CDAC sponsored National Seminar on Advance Computing and Communication-ACC, pp. 7-12, 2013.

- **Koushik Pal**, "Medical Image Watermarking: An Advanced Tool for Secure Data Transmission through Health Information Network"National seminar On Advancement of Security Issues in Modern Communicating Network-ASICN,pp. 5-15, 2013.

- **Koushik Pal,** "Hiding Patient Information in different Colour Space Scanned Biomedical Image using Watermarking for Protected and Authenticated Data Storage in Modern Health Care System" AICTE Sponsored National Conference on Control, Communication & Device Electronics-N3CD,pp. 125-132, 2013.

- **Koushik Pal**, "Performance Analysis of Spatial and Frequency Domain Watermarking for Biomedical Image Security" AICTE sponsored National Seminar on Security Aspects of Modern Communication Systems- NSSAMCS ,pp. 72-82, 2013.

- **Suparna Biswas**, "Texture based color image segmentation"National Seminar on Security Aspects in Modern Communication Systems-2013.

- **Sayan Roy Chaudhuri**, "Comparative Analysis of LMS and RLS Algorithms & its Application in Unknown System Identification"National Seminaron Security Aspects in Modern Communication Systems-2013.

- **Surajit Basak**, "Multiuser Detection for CDMA System"National Seminar on Security aspect in modern communication system NSSAMCS, March 5-6, 2013.

- **Surajit Basak**, "Enhancing the Channel Capacity using MIMO System"National Seminar on Security aspect in modern communication system NSSAMCS, March 5-6, 2013.

- **Soma Manna,** "Data Confidentiality In Mobile Adhoc Networking Using Secret Sharing Scheme" National Seminar on Security aspect in modern communication system NSSAMCS, March 5-6, 2013.

- **Palasri Dhar**, "Development of AlGaAs /GaAs/ AlGaAs based Step Quantum well to produce Tunable Photo Detector and ElectroAbsorption Modulator" National Seminar on Security Aspects in Modern Communication System-2013, March 5-6, 2013

International Seminar / Conference

- **Dr Annapurna Das, Dr. Sisir Kumar Das, Antara Ghosal, Anurima Majumdar,** "Radiation Characteristics of a class of dual frequency circular microstrip antennas" IEEE TENCON-Spring 2013.

- **Dr Annapurna Das, Dr. Sisir Kumar Das, Antara Ghosal, Anurima Majumdar**, "Analysis of a class of multifrequency microstrip antenna for mobile hand set" IEEE TENCON-Spring 2013.

- **Koushik Pal**, "Extraction and Authentication of Hidden Patient's Information from Biomedical Image through Crypto-Watermarking Technique" IEEE 4th International Conference on Technical and Managerial Innovation in Computing and Communications in Industry and Academia,pp. 183-188, 2013.

- **Koushik Pal**, "A New Combined Crypto-Watermarking Technique using RSA Algorithm and Discrete Cosine Transform to Retrieve Embedded EPR from Noisy Bio-Medical Images" IEEE 1st International Conference on Condition Assessment Techniques in Electrical Systems, IEEE CATCON 2013, Kolkata.

- **Dipasri Das**, "FPGA Based DC/DC Converter for MPPT of Solar Cell"International Conference on Computation and Communication Advancement (IC3A-2013), IEEE, 11-12th January,2013

International Journal

- **Dr Annapurna Das, Dr. Sisir Kumar Das, Antara Ghosal, Anurima Majumdar**, "Analysis of a dual frequency slotted circular microstrip antenna"IJECSE,2013,ISSN 2277-1956/V2N4-1257-1264.

- **Arun Komar Mondal**, "Investigation of packet transmission strategies of MIMO equipped Mobile adhoc network using space-time coding" International Journal of Engineering Inventions Vol. 1, Issue 7, ISSN 2278-7461 ,pp. 29-35,October 2012.

DEPARTMENT: ASH

National Seminar / Conference

- **Dr. Soma Mukherjee :** Transport properties of diamond –like carbon films and its application in Technology and Industry: in "UGC-sponsored 96th Orientation Programme" from Academic Staff College, CU. during 23rd June to 21st July 2012.

- **Dr. Indrajit Bose :** "Listening in Context: Pragmatics of Business Telephony", paper presented at 2-day Teacher Training programme "Communication Skills at the Workplace" at the Institute of English, Kolkata on 17th October 2012.

- **Dr. Indrajit Bose :** Communicative Competence & its Uses October 2012 in Seminar on Effective Communication held at St. Xavier's College, Kolkata.

- **Dr. Indrajit Bose :** Person-to-Person: Modalities of Workplace Communication April 2013 In Seminar on "Corporate Communication" held at Vivekananda Group of Institutions, Sonarpur.

- **Dr. Sucharita Bhattacharyya & Mr. Anup Thander :** Study of optical wave guide using HOC scheme Recent Trends in Communication Technology (RTCT 2013) held IETE, Burdwan on their Diamond Jubilee Celebration and Dept. of Physics, Burdwan University.

- **Dr. Sucharita Bhattacharyya & Mr. Anup Thander :**Application of Mathematical Model in the study of Optical Wave Guide in National workshop on Mathematical Models for Scientific and Technological Applications (MMSTA 2013 held at RCC institute of Information Technology, Calcutta.

- **Dr. Sucharita Bhattacharyya :** Nano-the concept and application in some areas of Physics in 2oth Refresher Course in Physics entitled Modern Aspects of Physics from Department of Physics & UGC-Academic Staff College, University of Calcutta during (9th -28th) July, 2012.

- **Ms. Samata Saha :** in Refresher course in Perspectives in physics from Dept of Physics & UGC-Academic Staff College , jadavpur university during (3-22) Dec, 2012.

- **Sreyasri Basu:** "Synthesis and application of some novel Guar Gum derivatives" in "UGC-sponsored 96th Orientation Programme" from Academic Staff College, CU. during 23rd June to 21st July 2012.

National Journal

- **Mr. Shantanu Chankraborty :** My Students' Pluperfect Presentation, 63 to 66 Research Revolution.

International Seminar / Conference

- **Mr. H.Dasgupta, Ms. Sucharita Chakrabarti and Mr. Somnath Bandhopadhayay:** "On Caccioppoli-Kannan Type Fixed Point Principle in Generalized Metric Spaces". Accepted for publication in International Mathematical Forum,2012.

- **Dr. Soma Mukherjee:** Anomalous transport and dielectric behavior of CaCu3Ti4O12 (CCTO) type high dielectric constant materials in 100th Science Congress, Jan 3-7, 2013, held at Calcutta University, India.

- **Mr. Shantanu Chakraborty:** Participated in Motivation and Delegation in the Work Place held at British Council, Kolkata.

International Journal

- **Mr. Anup Kr. Thander and Mr. Gautam Mondol** : "Improved U*jević* method for finding zeros of linear and nonlinear equations" , International Journal of Mathematics : Trends and Technology – Volume 3 Issue 2 – 2012 , Page 74-78.ISSN:2231-5373, impact factor:0.462

- **Mr. Anup Kr. Thander and Mr. Chinmoy Ghosh** : "Normal magic square and its some matrix properties" , International Journal of Mathematics Trends and Technology – Volume 3 Issue 3 – 2012 , Page 91-95. ISSN:2231-5373, impact factor:0.462

- **Mr. Anup Kr. Thander**, **Mr. Sayan Paul and Ms. Promita Maitra** : "Improved Shamanskii method for finding zeros of linear and nonlinear equations ", Applied Mathematical Sciences, Vol. 6, 2012, no. 86, 4277 – 4281. ISSN:1312-885X(P), ISSN 1314-7552(E). impact factor:0.461

DEPARTMENT: CA

National Seminar / Conference

- **Dr Santanu Kumar Sen,Sharmistha Dey,Surojit Acharjee**," A Survey on Cloud Computing Security Issues" published in national seminar on Security Aspects in Modern Communication System(NSSAMCS) -2013 held in March 5-6,2013,organized by ECE Dept,GNIT

DEPARTMENT: FMS

National Seminar / Conference

- **Dr. Manjisgtha Maitra**, Associate Professor, Is the Extraverted Young Indian Woman Ready to Take Control in the Workplace? A Study on Female Management Students in National Conference on Emerging Research Paradigms in Business Management, George College, Department of Management in Collaboration with School of Management and Sciences, West Bengal University of Technology, pp. 35

2011-12

DEPARTMENT: CSE

National Seminar / Conference

- **Arnab Mitra, Santanu K.Sen** : "An Enhancement Of Bit Level Cryptography Over Modulo Arithmetic Technique (MAT)",., UGC sponsored 2nd National Conference on Computers and Systems (NaCCS-2012), Paper Id- NaCCS - 2012 - 033 for NSG - CG (Network Security : Cryptography), held during 15-16 March 2012 at the University of Burdwan, West Bengal, pp 67-72 **.**

- **Arup Kumar Bhaumik , Santanu Kr. Sen. Ipsita Saha:** "Internetworking of Multiple LANs using Extended Proxy ARP Avoids Low-Level Security Threats", National Conference on Computing & Communication Systems (CoCoSys-12), held during 02-04 January, 2012, University Institute of Technology, The University of Burdwan, Burdwan.

- **Santanu Kr. Sen**: "Reduction of Dependency on Third Party Software Self Virus Detection", National Conference on Pervasive Computing and Communications 2012 (NCPCC-2012), held during 2-3 March 2012 at Budge Budge Institute of Technology, Kolkata.

- **Santanu Sen:** "Improved and Efficient Object Serialization in OOP", National Conference on Pervasive Computing and Communications 2012 (NCPCC-2012), held during 2-3 March 2012 at Budge Budge Institute of Technology, Kolkata.

- **Santanu Sen, Arnab Mitra, Baisakhi Das :** "Uniform Random Number Generators: Distinguishing the Quality of Randomization through Statistical Measurements", National Conference on Pervasive Computing and Communications 2012 (NCPCC-2012), held during 2-3 March 2012 at Budge Budge Institute of Technology, Kolkata.

- **Santanu Sen, Baisakhi Das** : "Implementation of Blind Watermarking Through Haar Wavlength Transformation", National Conference on Pervasive Computing and Communications 2012 (NCPCC-2012), held during 2-3 March 2012 at Budge Budge Institute of Technology, Kolkata.

- **Mr. Moloy Dhar :** Image Parsing: An advance approach for image identification, NCCCS-2012.

- **Dr. Santanu K. Sen,** "S-ARP: A Secure and Efficient Address Resolution Protocol", National Seminar on Mobile Communication 2011, held during July 2011 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114.

- **Santanu K Sen, Baisakhi Das** : "Visible Digital Watermarking for Authentication And Change Detection in Images", National Seminar on Mobile Communication 2011, held during July 2011 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114.

- **Santanu K Sen, Arnab Mitra,** "A probabilistic approach for abused keyword filtration in text retrieval", National Seminar on Mobile Communication 2011, held during July 2011 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114

- **Santanu K Sen, Arnab Mitra,** "An ANN-based approach towards Anti-spam training in MTA", National Seminar on Mobile Communication 2011, held during July 2011 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114.

- **Santanu K Sen, Mr. Debasish Ghosh , Mr. Sandip Tigga, Mr. Sourav Ganguly:** "Loop free Scan Routing (LFSR) Avoids Count-To-Infinity Problem", Proceedings of the Conference on Recent Trends in Emerging Technologies (RTET-2011), held at B.P. Podder Institute of Management & Technologies, Kolkata, on Nov 25, 2011, pp 6-10.

- **Santanu K Sen** : "Minimization of Latency-Requirement for different OLAP Operations", National Seminar on Mobile Communication 2011, held during July 2011 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114.

- **Mr Moloy Dhar** : HMM based POS Tagger for Bengali language, National Seminar on Mobile Computing

- **Mr. Moloy Dhar**: Semantic Image analysis based POS Tagger, National Seminar on Mobile Computing.

- **Mr. Moloy Dhar**:" Semantic Image Analysis (SIM) based Image Parser"National Seminar on Mobile Communication-2011 (NSMC-2011), held at GNIT during 28-29 July 2011

- **Mr. Ankur Mondal:** Automatic Shape Independent Clustering Inspired by Ant Dynamics, National Seminar on Mobile Communication, July 28-29, 2011, GNIT.

- **Mr. Ankur Mondal :** Modified Bees Colony Optimization algorithm, National Seminar on Mobile Communication, July 28-29, 2011, GNIT

- **Mr. Partho Mallick, Mr. Arijit Dey, Mr. Dheeraj Mohanto, Mr. Indranil Ghosh, Mr. Pintu Lohar:** "Secured Address Resolution Protocol (SARP) Avoids ARP Cache Poisoning", Proceedings of National Conference on Information Security Systems (ICISS 2011), held at School of Information Technology, Chennai during 16-17 December 2011.

- **Dr. Santanu Sen, Mr. Pintu Lohar, Mr. Rajib Bag, Mr. Dheeraj Mohanto :** "Enterprise Network Solution", National Contest and Conference 20 Sept., 2011, organized by Computer Society of India, Kolkata Chapter in Sept 2011.

International Seminar / Conference

- **Mr. Ankur Mondal :**Face Detection Using Skin Tone Segmentation, World Congress on Information and Communication Technologies (WICT 2011), Mumbai, 12 – 14 Dec., 2011 published by IEEE.

- **Mr. Debraj Roy :** DNA Sequence Alignment Engine: An AM-based design, Annual IEEE India Conference (INDICON 2011), 16-18 Dec., 2011 published in IEEE Explore.

- **Mr. Aritra Kundu :** A hybrid system for reducing the false alarm rate of anomaly intrusion detection system, Recent Advances in Information Technology (RAIT), 2012 1st International Conference,15-17 March 2012,Page: 131 - 136 ,Print ISBN:978-1-4577-0694-3.

- **Ms. Mandira Banik** : Modelling of Railway Network Using Petri Nets, World Comp 2011, Las Vegas, USA, July 18th-21st (2011)

DEPARTMENT: IT

National Seminar / Conference

- **Arnab Mitra, Baisakhi Das, Mainak Nandi, Sayeed Alam**; Skin color based image adultery filtration; National Seminar on Mobile Communication 2011(NSMC-2011)- Sponcerd by AICTE ;Kolkata;July 28-29, 2011; pp 64-68.

- **Chowdhury Md. Mizan**, **Santanu K Sen** : "Minimization of Latency-requirement for Different OLAP Operations", by, National Seminar on Mobile Communication 2011(NSMC-2011)- Sponsored by AICTE ;Kolkata;pp 119-124

- **Baisakhi Das, Santanu K Sen, Ravi Pandey, Rizwan Khan, Sanjeet Bahadura, Avishek Hazra, Shantanu Dutta, Md.Aoushaque Sahin;** Implementation of Blind Watermarking Through Haar Wavelet Transformation; National Conference on Pervasive Computing and Communication (NCPCC)-2012; Sponsored by Dept. of Science and Technology ; March 2-3, 2012, pp 74-78.

- **Apurba Chakroborty, Arnab Mitra, Debleena Srivastva, Baisakhi Das, Santanu K.Sen;** An enhancement of bit level cryptography over Modulo Arithmetic Technique (MAT); The Second National Conference on Computing and Systems (NaCCS) - 2012 sponsored by The UGC; The Burdawn University, Burdwan; March 15-16, 2012.

- **Arnab Mitra, Baisakhi Das,Debleena Srivastva, Apurba Chakroborty,Santanu K.Sen**;Uniform Random Number Generators: Distinguishing the Quality of Randomization Through Statistical Measurements; National Conference on Pervasive Computing and Communication (NCPCC)-2012-Sponsored by Dept. of Science and Technology, W.B. Govt; March 2-3, 2012; pp 47-51.

International Seminar / Conference

- **Baisakhi Das, Gunjan Bhattacharya, Ilora Maity, Biplab K Sikdar**; Impact of Inaccurate Design of Branch Predictors on Processors' Power Consumption; 2011 IEEE Ninth International Conference on Dependable, Autonomic and Security Computing; Dec. 12-14,2011; Sydney, Australia; pp 335-342.

- **Gunjan Bhattacharya, Ilora Maity, Baisakhi Das and Biplab K Sikdar**; Exploring Impact of Faults on Branch Predictors' Power for Diagnosis of Faulty Module; IEEE sponsored Asian Test Symposium 2011(ATS-2011); November 21-23, 2011 ; New Delhi, INDIA: pp 226-231.

- **Suparna Karmakar,Ranjan Dasgupta**:"A Petri Net representation of Web-service-based Emergency Management System in Railway station (Accepted Paper)", by, International conference on Computer science and information Technology (ICCSIT 2011)- : November 28-30; Venice, ITALY

- Himansu Srivastava, **Sudeep Ghosh**, Vasudha Vashist, Jail break with dual booting of any slartphone using Linux", by : International Conference on Computer Science and Engineering (ICCE2011)- 2nd -3rd October 2011 , Bhubaneswa.
- **Baisakhi Das, Mousumi Saha and Biplab K Sikdar** ; Evaluation of Branch Predictors Targeting Easeful Diagnosis of Design Inaccuracies; IEEE International Conference on Devices, Circuits and Systems – ICDCS 2012; Mar. 15-16 ,2012; Coimbatore, India;pp 230-234

DEPARTMENT: AEIE

National Seminar / Conference

- **Dibyendu Sur**"Multistation Characteristics of EIA and ESF using dual frequency GPS receivers in the lead up to the 24th solar maximum" at 17th National Space Science Symposium (sponsored by ISRO) on February 14-17, 2012 at SV University, Tirupati

- **Sudip K. Kuila and Balaji Raja,** on " Non-stationary Signal Analysis for MCSA using different techniques", NCPCC-2012, 2-3 March at BBIT

- **Dibyendu Sur,**"Wireless Communication of BRAILLE" **,**National Conference on Mobile computing 2011, 28-29 July, 2011 held at Guru Nanak Institute of Technology.

- **Sudip Kuila, et al,** "ECG in mobile"; National Conference on Mobile computing 2011, 28-29 July, 2011.held at Guru Nanak Institute of Technology

International Seminar / Conference

- **Jayita Datta**"ECG Signal Capturisation and Visual Detection Of Heart Abnormalities" presented at Pharmaceutica - 2012 in Sanfrancisco, USA during 20-22 Feb.,2012

- **Paramita Banerjee**, **Bharati Goswami**, **Ratna Ghosh**" Modelling of a sensor used for RFA based dental implant stability measurement" at International Conference on Informatics, Electronics & Vision (ICIEV'12) during May,2012

- **Prof. A.K. Ghoshal,**"Vacuum Technology in the study of Graphene", at International Symposium on Vacuum Science and Technology and to application for Accelerators (IVS-2012) held at VECC, BARC, Kolkata - 700064 (February 15-17, 2012)

- **Prof. A.K. Ghoshal**, "ZnO/Ti Thin Film: Synthesis, Characterization and Methane Gas Sensing Property" Presented at International Symposium on Vacuum Science and Technology and to application for Accelerators (IVS-2012) held at VECC, BARC, Kolkata - 700064 (February 15-17, 2012)

- **Adhish Kr. Chakraborty** "Robust Model Reference Adaptive Control of Linear Multivariable Plants- A New Approach" by Adhish Kr. Chakrabarty & Samar Bhattacharya, Proc.of International Conference on Electrical Engineering & Application, Chennai, December, 2011

DEPARTMENT: FT

National Seminar / Conference

- **Dr. Sunita Adhikari :** Abstract published on the topic of "Mathematical modeling for the rehydration kinetics of Un osmosed and Pre osmosed Carrot cubes" in the Seminar Proceedings of UGC sponsored National Seminar On Recent Trends in Research Of Nutrition Science on February(22-23)rd, 2012 organized by Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College in collaboration with Department of Food & Nutrition,WBSU,West Bengal,India

- **Dr. Sunita Adhikari :** Abstract published on the topic of "Mathematical modeling for the rehydration of pre-osmosed and un-osmosed potato cubes" in the Seminar Proceedings of Prasanskaran, 3rd Industry Academia Conference, Dept. of Food Technology, Haldia Institute of Technology on !7th March ,2012.

- **Dr. Sunita Adhikari :**Poster presentation & Abstract Published at 24th February, 2012 at CHEMBRIDGE 2012, Chemical Engineering Department, Jadavpur University on "Mathematical modeling for the rehydration of pre-osmosed and un-osmosed carrot cubes".

- **A.K Barman , Dr. K. Bandyopadhyay and Dr. C. Chakraborty.; "***Production and Use of Healthy Appetizer with Sweet Potato Powder as Functional Ingredient of Vegetable Soup Preparation"*, UGC Sponsored National Seminar on Recent Trends in Research of Nutrition Science, organized by the Department of Food and Nutrition, Barrackpore Rastraguru Surendranath, February 22nd-23rd , 2012.

- **Dr. C. Chakraborty** : *"Comparative study of the quality characteristics of traditional and microwave processed Payas"* in the 19th West Bengal State Science & Technology Congress at Saha Institute of Nuclear Physics, March 1st -2nd , 2012.

- **Dr. C. Chakraborty, A.K Barman and Dr. K. Bandyopadhyay :***"Production and Use of Sweet Potato Powder in Soup Preparation",* in the 19th West Bengal State Science & Technology Congress at Saha Institute of Nuclear Physics, March 1st -2nd , 2012.

- **A.K. Barman , Dr. K. Bandyopadhyay and Dr. C. Chakraborty**; *Shelf-life evaluation of Whey Based Banana Herbal (Mentha arvensis) Beverage*, National Conference on Pervasive Computing and Communications 2012 at Budge Budge Institute of Technology, March 2nd – 3rd , 2012.

- **Dr. C. Chakraborty, A.K Barman and Dr. K. Bandyopadhyay**; *"Preparation and Characterization of Sweet Potato Powder Based Vegetable Soup"*, 3rd Industry Academia Conference on New Product Development: An Emerging Emphasis & Integral Part of Industrial Growth, organized by the Department of Food Technology, Haldia Institute of Technology, held on 17th march, 2012.

- **A.K. Barman , Dr. K. Bandyopadhyay and Dr.C. Chakraborty**.; *"Development of Fermented Food by the combination of Soymilk & Peanut Milk"*, in the 3rd Industry Academia Conference on New Product Development: An Emerging Emphasis & Integral Part of Industrial Growth, organized by the Department of Food Technology, Haldia Institute of Technology, held on 17th march, 2012.

- **A.K Barman , Dr. C. Chakraborty and Dr.K.Bandyopadhyay :** *"Microbiological quality of street-vended Indian chaats sold in Kolkata"*, in the 3rd Industry Academia Conference on New Product Development: An Emerging Emphasis & Integral Part of Industrial Growth, organized by the Department of Food Technology, Haldia Institute of Technology, held on 17th march, 2012.

- **Dr. Subhajit Ray and Dr. Anju Paul :** "Development on Carrot Powder Fortified Biscuit" in the UGC sponsored National Seminar on Recent Trends in Research of Nutrition Science going to be held on February 22nd&23rd,2012 Organized by Department of Food and Nutrition,Barrackpore Rastraguru Surendranath College,Barrackpore,kokata,India

- **Dr. Subhajit Ray and Dr. Anju Paul :** "Production and Analysis of Herbal Ice Cream" in the UGC sponsored National Seminar on Recent Trends in Research of Nutrition Science held on February 22nd&23rd,2012 Organized by Department of Food and Nutrition,Barrackpore Rastraguru Surendranath College,Barrackpore,kokata,India.

- **Dr. Subhajit Ray :** Abstract & Full Paper accepted on Electronic Nose-an Effective Tool in Monitoring and Control of Biomethanation Process in the National Conference on Pervasive Computing and Communications held on February 28th&29th-2012(NCPCC-012) organized by Budge Budge Institute of Technology ,Budge Budge, Kolkata, India

- **Dr. Anju Paul :** "Production of Herbal Ice lollies – A Health Food " in the Seminar Proceedings of Industry Academia Conference on New Product Development : An Emerging Emphasis &Integral Part of Industrial Growth, organized by the Department of Food Technology, Haldia Institute of Technology, held on 17th march, 2012.

- **Kanawjia S. K., Khetra, Y. Giri, A. and Sanjeev Kumar :**Enhancement of health attributes in cheese and cheese like products using dairy and non-dairy functional ingredients. National Seminar on "Dairying in Eastern India: Challenges & Oppertunities", organized by Indian Dairy Association (EZ) Bihar State Chapter,Patna on 15th – 16th April, 2012, Published in Souvenir, Page: 25-34.

- **Dr. K. Bandyopadhyay, Dr. C. Chakraborty and A.K. Barman** : *"Effect of Microwave Treatment on the Recovery of Protein from Indian Defatted Rice Bran (Oryza Sativa) Meal,"* , Proceedings of National Seminar on Current Technological Challenges in Food Processing , Dept. of Food technology & Biochemical Engg. J.U. June 25-26, 2011

- **Dr. C. Chakraborty, Dr. K. Bandyopadhyay, and A.K. Barman :***"Development and Storage Studies of Traditional Dessert Payas by the Application of Microwave Technology"*, National Seminar on Current Technological Challenges in Food Processing Specially Emphasizing Food Irradiation, Organized by the Dept. of Food Technology & Biochemical Engg., J.U. in collaboration with MOFPI, Govt. of India & Food Processing industries & Horticulture Dept. Govt. of West Bengal, June 25-26th , 2011.

- **Dr. Sunita Adhikari** : Attended & Delivered Lecture on *Bioremediation of Malathion* in the Faculty Summit-2011 held on 6th-8th July 2011 organized by GNIT.

- **A.K Barman , Dr. K. Bandyopadhyay and Dr. C. Chakraborty, Dr. Subhajit Ray :***Physico-Chemical Analysis of a Fermented Food by the Combination of Soy-peanut milk*, National Seminar on Role of bioactive compounds in foods on human health , organized by Department of Food Engineering and Technology, School of Engineering, Tezpur University, Assam held on November 14-16th, 2011.

- **Dr. Subhajit Ray** : Attended & Delivered Lecture on *Lactic Beverages* in the Faculty Summit-2011 held on 6th-8th July 2011 organized by GNIT

- **Dr. Subhajit Ray** : Attended and Delivered Lecture in the Topic of *"Computer controlled Wine Production in an Ongoing Fermentation System-an Overview"* in the National Seminar on Mobile Communication-2011(NSMC-2011) held on 28th and 29th july-2011 Organized by Department of

Electronics and Communication Engineering, Gurunanak Institute of Technology, Kolkata(Abstract and full paper published)

National Journal

- **Dr. Sunita Adhikari** Paper published in the Journal Beverage & Food World (National) entitled Extraction of Lycopene from a Cheap Source and Study of the Effect of Storage at Refrigerated Condition in 2012, Vol.39(6), pp no. 40-41.

- **Dr. Sunita Adhikari** Paper published in the Journal Food & Beverage World (National) on "Production of Mixed Fruit Wine by Saccharomyces cerevisiae MTCC 178" in March 2012.

- **Dr. C. Chakraborty, Dr. K. Banyopadhyay, & A.K. Barman**: "Nutritional and Rheological Characterization of Potato Powder Based Indian Traditional Dairy Product: Kheer", Wesleyan Journal of Research . 5(1): 42-49, 2012.

- **Debabrata Bera, Prof. Parimal Chattopadhyay, Prof. Lalitagauri Ray**. "Continuous removal of Chromium from tannery waste water using activated sludge process,- Determination of Kinetic Parameter"Indian Journal of Chemical Technology Vol. No.19(1),32,2012.

- **Dr. Subhajit Ray :** Research paper published on Optimization of process conditions for biosurfactant production from mutant strain of Bacillus sp(m28) in a 5l laboratory fermenter in Journal of microbiology and biotechnology research, ISSN 2221-3168, Coden (USA) JMBRB4, Vol.2,issue 3, 2012, pp.431-439.

- **Dr. Subhajit Ray :** Research paper published on Fermentative production of an alkaline extra cellular lipase using an isolated bacterial strain of Serratia sp (C_4) in Journal of microbiology and biotechnology research, ISSN 2221-3168, Coden (USA) JMBRB4,Vol.2,issue4,2012,pp.545-557.

- **Dr. Subhajit Ray :** Research paper published onStudies on fluidized bed column reactor for the substrate conversion using immobilized extracellular alkaline lipase of isolated strain of Serratia sp (C_4) in Journal of microbiology and biotechnology research, ISSN 2221-3168, Coden (USA) JMBRB4, Vol.2, issue4,2012,pp.538-544.

- **Mr. Bal Ambarushi Jadhav**: Effect of various drying techniques on loss of colour and vitamins in fenugreek leaves, Indian Fiid Packer, 66, 2: 63-65, 2012.

- **Mr. Bal Ambarushi Jadhav** : Studies on preparation and qualities of dietary fiber rich biscuit, Beverage and Food World, 39,9: 47-48.

International Seminar / Conference

- **Dr. C. Chakraborty** : "Antioxidant level of different type of laboratory made Herbal Sandesh" in the International Conference on Functional Dairy Foods at Karnal, Haryana, November, 16th-19th, 2011

International Journal

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- **Dr.K. Bandyopadhyay, Amit kumar Barman** :Research paper published in ***Wesleyan Journal of Research*** entitled "Nutritional and Rheological Characterization of Potato Powder Based Indian Traditional Dairy Product: Kheer", 5 (1): 42-49, 2012. **ISSN**: 0975-1386.

- **Prof. Parimal Chattopadhyay : "**Continuous removal of Malathion by immobilized biomass of *Bacillus species* S_{14} using packed bed column reactor" in Journal of Chemical Speciations and Bioavailability (International) 2012, Vol.24(3),pp no.167-175.

- **Prof. Parimal Chattopadhyay :**"Application of principle component analysis (PCA) as a sensory assessment tool for fermented food products" Journal of Food Science & Technology (Springer) 49(3),328,2012.

- D**r. Subhajit Ray :**Research paper published on Production of biosurfactant using an isolated bacterial strain of Bacillus sp (m28) in Journal of microbiology and biotechnology research, ISSN 2221-3168, Coden (USA) JMBRB4, Vol.2, issue 3, 2012, pp.402-415.

- **Dr. Subhajit Ray :** Research paper published on Optimization of process conditions for biosurfactant production from mutant strain of Bacillus sp(m28) in a 5l laboratory Fermenter in

Journal of microbiology and biotechnology research, ISSN 2221-3168, Coden (USA) JMBRB4, Vol.2,issue 3, 2012, pp.431-439.

- D**r. Subhajit Ray :** Research paper published on Fermentative production of an alkaline extra cellular lipase using an isolated bacterial strain of Serratia sp (C_4) in Journal of microbiology and biotechnology research, ISSN 2221-3168, Coden (USA) JMBRB4,Vol.2,issue4,2012,pp.545-557 **.**

- **Dr. Subhajit Ray :** Research paper published on Studies on fluidized bed column reactor for the substrate conversion using immobilized extracellular alkaline lipase of isolated strain of Serratia sp (C_4) in Journal of microbiology and biotechnology research, ISSN 2221-3168, Coden (USA) JMBRB4, Vol.2, issue4,2012,pp.538-544.

- **Debasree Ghosh, Prof.Parimal Chattopadhyay**. "Application of principle component analysis (PCA) as a sensory assessment tool for fermented food products" Journal of Food Science & Technology (Springer) 49(3),328,2012

- **Dr.K. Bandyopadhyay, Dr.C. Chakraborty and Amit kumar Barman** : Effect of Microwave and Enzymatic Treatment on the Recovery of Protein from Indian Defatted Rice bran Meal, J. Oleo Science, Japan, 61(10), 2012.

- **Dr. Sunita Adhikari** : Continuous removal of Malathion by immobilized biomass of Bacillus species S_{14} using packed bed column reactor in 2012, Journal of Chemical Speciations and Bioavailability Vol.24(3),pp no.167-175

- **Dr. Sunita Adhikari :** Paper published in the Journal of Chemical Speciations and Bioavailability entitled **Continuous removal of Malathion by immobilized biomass of Bacillus species S_{14} using packed bed column reactor** in 2012, Vol.24(3),pp no.167-175.

- **Debasree Ghosh, Prof. Parimal Chattopadhyay**. "Survival of Pro-biotic Microorganisma for Improvement of Nutritional Quality of Ice Cream" Indian Chemical Engineer, 2012, 1-13.

- **Makhal, S., Kanawjia, S. K. and Giri, A. :**Effectiveness of thymol in extending keeping quality of cottage cheese. Journal of Food Science and Technology. DOI 10.1007/s13197-012-0715-y (NASS rating – 6.8; Impact Factor - 0.498).

- **Giri, A., Rao, H. G. R. and Ramesh, V. :**Effect of incorporating whey protein concentrate into stevia-sweetened Kulfi on physicochemical and sensory properties. International Journal of Dairy Technology. doi: 10.1111/1471-0307.12005 (NASS rating – 7.3; Impact Factor – 1.107).

- **Giri, A., Rao, H. G. R. and Ramesh, V. :**Effect of partial replacement of sugar with stevia on the quality of kulfi. Journal of Food Science and Technology. JFST-D-10-DOI 10.1007/s13197-012-0655-6 [National Academy of Agricultural Sciences (NASS) rating – 6.8; Impact Factor - 0.498].

DEPARTMENT: EE

National Seminar / Conference

- **Sisir Mazumder,Shymal Kumar Roy** "Design & Analysis of Microprocessor based chopper based speed control of DC motor using PW Technique" at Inter College Seminar at PCMT,KOLKATA , held during 17-18 Aug,2011.

- **Sisir Mazumder, Susovan Dutta, S. Ray,**"Framework to Design a 100 VA Transformer using C Program ", at Inter College Seminar at PCMT,KOLKATA , held during 17-18 Aug,2011

International Journal

- **Dr Shyamal Kr Ghosh** "Modeling and Analysis of Fibre Optics using Resonator Performance as Temp sensor, Sensor and Transducer Journal", IFSA, Barcelona.2011.IMPACT FACTOR: 0.705

- **S. Bhattacharya, Pabal Deb, Sujit K. Biswas, Suparna kar Choudhury, "**Comprehensive study of control techniques on four switch converter" , International Journal of science and Technology, December, 2011. IMPACT FACTOR: 1.65

DEPARTMENT: ECE

National Seminar / Conference

- **Dr Annapurna Das, Dr. Sisir Kumar Das, Avali Ghosh, Aditi Mandal,** "Analysis and Measurements of Crosstalk in High Speed and High Frequency Printed Circuit Boards" National Conference on Pervasive Computing And Communications-2012.

- **Dr. Annapurna Das, Dr. Sisir Kumar Das, Avali Ghosh, Aditi Mandal, Anurima Majumdar, Antara Ghosal**"Analysis of Feeding Techniques of Rectangular Microstrip Antenna" National Conference on Pervasive Computing And Communications-2012

- **Arun Komar Mondal**, "Optimization of Transmission Range for MIMO Ad hoc Network in Fading Environment" NCPCC-2012,National Conference.

- **Koushik Pal**, "A Novel Digital Image Watermarking Scheme for Data Security using Bit Replacement and Majority Algorithm Technique" UGC Sponsored National Symposium on Emerging Trends in Computer Science- ETCS ,pp. 57-60, 2012.

- **Koushik Pal**, "A Novel Biomedical Image Watermarking for Data Integrity using Multiple Copies of Hidden Information by DWT and Bit Majority Algorithm" National Conference on Pervasive Computing & Communications- NCPCC ,pp. 125-130, 2012.

- **Koushik Pal,** "Relevance of Bio-Medical Image Watermarking for Data Authentication and Security in Telemedicine and Healthcare" National Conference on Pervasive Computing & Communications- NCPCC ,pp. 131-135, 2012

- **Dipasri Das,** "FPGA Based Implementation of MPPT of Solar Cell" National Conference on Computing and Communication Systems (NCCCS-2012), IEEE, 21-22nd November 2012

International Seminar / Conference

- **Dr. Annapurna Das, Dr. Sisir Kumar Das, Avali Ghosh, Aditi Mandal, Antara Ghosal, Anurima Majumdar** "Feeding techniques of rectangular microstrip antenna" ICSPCC-2012 and IEEE explore.

- **Koushik Pal,** "Biomedical Image Watermarking for Content Protection using Multiple Copies of Information and Bit Majority Algorithm in Wavelet Domain" IEEE Conference On Electrical, Electronics And Computer Sciences- IEEE SCEECS ,pp. 1-6, 2012.

- **Koushik Pal,** "Retrieval of Hidden Infected Region using Biomedical Image Watermarking for Tele-diagnosis to Ensure Better Treatment" IEEE 5th International Conference on Computers and Devices for Communication- CODEC ,pp. 1-4, 2012

International Journal

- **Arun Kumar Mondal** "Investigation of packet transmission strategies of MIMO equipped Mobile adhoc network using space-time coding" International Journal of Engineering Inventions Vol. 1, Issue 7, ISSN 2278-7461 ,pp. 29-35,October 2012

- **Koushik Pal,** "Biomedical Image Watermarking in Wavelet Domain for Data Integrity using Bit Majority and Multiple Copies of Hidden Information" American Journal of Biomedical Engineering (AJBE)", p-ISSN: 2163-1050, e-ISSN: 2163-1077 from Scientific & Academic Publishing, USA, Volume-2, Number-2, pp. 29-37,2012.

- **Koushik Pal,** "A Comparative Study between LSB and Modified Bit Replacement (MBR) Watermarking Technique in Spatial Domain for Biomedical Image Security" International Journal of Computer Applications and Technology (IJCAT)", ISSN: 2278-8298 from Association of Technology and Science, Volume-1, Issue-1, pp. 30-39,2012.

- **Koushik Pal**, "Biomedical Image Watermarking for Medical Data Security Using Modified Bit Replacement Algorithm in Spatial Domain" International Journal of Applied Engineering (IJAE) ISSN: 20104391 from Eureka Press, Singapore, Volume-2, Issue-3, pp.158-169,2012.

- **Koushik Pal,** "Reversible Digital Image Watermarking using Bit Replacement and Majority Algorithm Technique" Journal of Intelligent Learning Systems and Applications (JILSA), ISSN Print: 2150-8402, ISSN Online: 2150-8410 from Scientific Research Incorporation group, USA, Volume-4, Number-3, pp.199-206,2012

DEPARTMENT: ASH

National Seminar / Conference

- **Dr. Indrajit Bose:** Teachers as Innovators: Developing Listening & Speaking Materials for the Indian Learner Jan 2012 in English Language Education in India: Theory & Practice at CELS, University of Hyderabad, Hyderabad.
- **Mr. Shantanu Chakraborty:** Communication Skills in A One Day Communication and Interpersonal Skills Workshop for Teachers held at Vivekananda Academy, Betai, Nadia.
- **Mr. Shantanu Chakraborty :** Communication Skills in Communication and Soft Skills Workshop held at GNIT, Sodepur
- **Dr. Soma Mukherjee, Mr. Bijay Krishna Chaudhuri, Mr. Hironobu Sakata and Ms. Moriaki Wakaki**: Anomalous electronic transport in diamond-like-carbon films of different thickness:: J. Mats. Scie & Engg. B 1 (2011) 649-656
- **Mr. H.Dasgupta , Ms. Sucharita Chakrabarti** : m-Dense Sets and Agreement of Mappings in Spaces with Minimal Structures, Rev. Bull. Cal. Math. Soc., 19, (1) 111-114 (2011).

National Journal

- **Mr. H.Dasgupta , Ms. Sucharita Chakrabarti** : m-Dense Sets and Agreement of Mappings in Spaces with Minimal Structures, Rev. Bull. Cal. Math. Soc., 19, (1) 111-114 (2011).

International Journal

- **Dr. Soma Mukherjee, Mr. Bijay Krishna Chaudhuri, Mr. Hironobu Sakata and Ms.Moriaki Wakaki** :Anomalous electronic transport in diamond-like-carbon films of different thickness:: J. Mats. Scie & Engg. B 1 (2011) 649-656.ISSN:0921-5107, impact factor:1.884

- **Ms. Sucharita Chakraborti: "**On m-Baire Spaces", Vol. 6, 2011, no. 2, 95 – 101 in International Mathematical Forum. ISSN:1312-7594, impact factor:0.323

DEPARTMENT: FMS

National Journal

- **Dr. Manjisgtha Maitra**, Associate Professor, "Is the Extraverted Young Indian Woman Ready to Take Control in the Workplace?" Kindle Journal of NHRD Kolkata Chapter, Vol. 2, No.02, pp.27

International Seminar / Conference

- **Dr. Rajdeep Bakshi**, Professor and HOD, "Brand Valuation Essentials", "Wiley Encyclopedia of Management" in 2011.

- **Dr. Rajdeep Bakshi**, Professor and HOD, "Improving Business At Retail Market Of X Bearings- A Qualitative Study", "Gurukul Business Review (GBR)" in 2011

2010-11

DEPARTMENT: CSE

National Seminar / Conference

- **Dr. Santanu K. Sen :** "A Low-cost Multimedia Projector using Scan Method and Chip Laser Diode", National Conference on Emerging trends and advances in Electrical Engineering and

Renewable Energy (NCEEERE 2010), Sikkim Manipal Institute of Technology, Sikkim, held during 22 – 24 December 2010

- **Prof. Arup Kumar Bhaumik,** Mr. **Ankur Mondal, Mr. Sandip Tigga, Mr. Avijit Kundu, Mr. Debashis Ghosh:** "An Efficient Routing Algorithm for MANET using Restricted Flooding", National Conference on Emerging Trends in Information Technology (NCTIT -10), Gandhi Institute of Engineering & Technology, held during 01-02 November 2010.
- **Dr. Santanu K. Sen :** "A Self-Checking Circuit for Concurrent Checking by 1-out-of-4 code with Design Optimization using Constraint Don't Cares", National Conference on Emerging trends and advances in Electrical Engineering and Renewable Energy (NCEEERE 2010), Sikkim Manipal Institute of Technology, Sikkim, held during 22 – 24 December, 2010.
- Mr. **Ankur Mondal** : "Modified Routing Information Protocol (MRIP) Eludes CTI Problem", 16th International Conference on Computer Networks and Mobile Computing (ICCNMC), Singapore organized by World Academy of Science, Engineering and Technology, Singapore held during 26-28 August 2010.
- **Ankur Mondal,** Automatic Shape Independent Clustering Inspired by Ant Dynamics, National Seminar on Mobile Computing
- **Mr. Ankur Mondal** : Modified Bees Colony Optimization algorithm, National Seminar on Mobile Computing.
- **Mr. Santanu Halder, Mr. Subhrajit Sinha Roy, Dr. Santanu K. Sen:** "An Optimized Concurrent Self-Checker using Constraint-Don't Cares and 1-out-of-4 Code", National Conference (AECDISC-2010) in Asansol Engineering College, held during 1-2 August 2010.
- **Mr. Moloy Dhar** : "Semantic Analysis based POS tagger used for Image Detection", National Conference on Signal Processing and Communication Systems, held at ANU College of Engineering and Technology, Guntur, Andhra Pradesh, held during 1-2 April 2011.
- **Mr. Kallol Bera, Mr. Pintu Lohar ,Mr. F. Ali Ahmed, Mr. Manoj Pandit :** " An Efficient DVR-based Routing Algorithm", Seminar on Recent Trends in Emerging Technologies (RTET-2011), held at B.P. Podder Institute of Management & Technologies, Kolkata, on Feb 25, 2011.

International Seminar / Conference

- **Mr. Amit Paul, Mr. Arijit Dey, Mr. Indranil Ghosh, Mr. Sougata Sarkar :** "Modified Routing Information Protocol (MRIP) Eludes CTI Problem", 16th International Conference on Computer Networks and Mobile Computing (ICCNMC), Singapore organized by World Academy of Science, Engineering and Technology, Singapore held during 26-28 August 2010.

- **Mr. Moloy Dhar , Mr. Monoj Pandit:** ."Semantic Image Analysis for Identifying Human Image", International Conference of Visual Communication and Image Processing (VCIP)", Sanghai, China, 11-14 July, 2010.

- **Dr. Santanu Sen, Mr. Subhrajit Sinha Roy :** "A Low-cost Multimedia Projector using Scan Method and Chip Laser Diode", National Conference on Emerging trends and advances in Electrical Engineering and Renewable Energy (NCEEERE 2010), Sikkim Manipal Institute of Technology, Sikkim, held during 22 – 24 December 2010.

International Journal

- **Mr. Santanu Halder**, Face Synthesis (FASY) System for Determining the Characteristics of a Face Image, National Seminar on Recent Advances on Information Technology (RAIT-2010), International Journal of Recent Trends in Engineering. Impact factor: 0.76
- **Mr. Santanu Halder** FPGA Based Assembling of Facial Components for Human Face Construction, Soft Computing - A Fusion of Foundations, Methodologies and Applications, Springer. Impact factor: 0.76
- **Mr. Santanu Halder** , Construction of Human Faces from Textual Descriptions, Soft Computing - A Fusion of Foundations, Methodologies and Applications, Springer
- **Aritra Kundu**, "Full Communication in a Wireless Sensor Network by Merging Blocks of a Key Pre-distribution using Reed Solomon Code", International Journal of Network security & It's Application,Feb-2011.impact factor:1.0

DEPARTMENT: IT

International Seminar / Conference

- **Karabi Konar,B.L Darshan** "Design space exploration of analog integrated circuit" International Conference on Modelling, optimization and computing, NIT Durgapur (Held on 28-30 October, 2010)AIP conference proceedings, 12999, p(380- 385).

- **Anirban Kundu, Chandan Banerjee, Sutirtha Kr. Guha, Arnab Mitra, Souvik Chakraborty, Chiranjit Pal, Rahul Roy**; Memory Utilization in Cloud Computing using Transparency; The 5th International IEEE Conference on Computer Sciences and Convergence Information Technology (ICCIT 2010); Seoul, S. Korea; November 30 – December 2, 2010; pp. 22-27

- **Anirban Kundu, Sutirtha Guha, Arnab Mitra, Tapas Mukherjee**; A New Approach in Dynamic Prediction for User based Web Page Crawling; The International ACM Conference on Management of Emergent Digital EcoSystems (MEDES 2010); Bangkok, Thailand; October 26-29, 2010; pp. 166-173

International Journal

- **Anirban Kundu, Sutirtha Guha, Arnab Mitra;** Dynamic Web-page Ranking of Search Engine using Importance Increasing Factors(submitted for the International Journal of Intelligent Information and Database Systems (IJIIDS), Inderscience Publishers).

DEPARTMENT: AEIE

National Seminar / Conference

- **Prof. A.K. Ghoshal**,"Mathematical Modelling for the Biocorrosion Pattern of Retrieval 316 L Stainless Steel Orthopaedic Implants" presented at XII Annual Conference of West Bengal Sports Medicine (Medicon 2011) held at Jadavpur University (January 9, 2011)

International Seminar / Conference

- **Paramita Banerjee** "Determination of stability of dental implant from impedance studies using resonance frequency analysis " by Paramita Banerjee, et al, Proc.of International Conference on emerging application of information technology (EAIT 2011), Science city, Kolkata, India, Feb. 18-20, 2011. (Organised by Computer Society of India, Kolkata Chapter, Kolkata.)

- **Dibyendu Sur, Nantu Das, M. Mitra, J.N. Bera, "**Recent Advances on Mathematics, Technology & Management", 21st & 22nd March' 3rd International Conference, 2011 at Bengal institute of technology & management on "Interfacing a Multimedia Memory Card with a Microcontroller using SPI mode".

- **Adhish Kr. Chakrabarty & Samar Bhattacharya**, Robust Model Reference Adaptive Controller for Single Variable Nonliinear Plants ", Proc.of International Conference on Power, Control and Embedded Systems (IEEE conference), Allahabad, India, 28 Nov- 2 Dec, 2010. (Organised by Motilal Nehru National Institute of Technology in collaboration with Queen's University, Canada).

International Journal

- **Dibyendu Sur, Nantu Das, M. Mitra, J.N. Bera,** International Journal BITM Transaction on EECC, ISSN No- 0974-9527, Vol-2 on "Interfacing a Multimedia Memory Card with a Microcontroller using SPI mode".

DEPARTMENT: FT

National Seminar / Conference

- **Dr. Chaitali Chakraborty** "Comparison on Textural and Antimicrobial Activity of Different types of Laboratory made and Marker Herbal Sandesh" in the National Dairy Industry Conference at EZCC, Saltlake, held on 4-6th February, 2011.

- **Dr.K. Bandyopadhyay, Dr.C. Chakraborty and A.K. Barman** : "Production and use of potato powder in Indian Traditional Sweets", in the National Seminar on Recent Advances in the Development of Fermented Foods at the Centre of Food Science & Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, April 8-9, 2011.

- **Dr.S.Adhikari, Dr.C. Chakraborty and A.K. Barman** : "Studies on the Development of a Fermented Food by the combination of soymilk & Peanut milk", in the National Seminar on Recent Advances in the Development of Fermented Foods, at the Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, April 8-9, 2011.

- **Dr.C. Chakraborty Dr.K. Bandyopadhyay, and A.K. Barman :** "Application of Microwave Technology for process optimization of traditional dessert Payas", in the National Seminar on Recent Advances in the Development of Fermented Foods, at the Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, April 8-9th , 2011.

- **Dr.C. Chakraborty, Dr.K. Bandyopadhyay** : "Studies on The Rheological Properties of Potato Kheer", in the Dairy Industry Conference at the Eastern Zonal Cultural Centre, Salt Lake City, Kolkata, 4-6th February, 2011.

- **A.K. Barman :** "Nanotechnology :An emerging tool for proving Quality Food Products" **National Seminar on Advancement of Food Technology: Role of Nanotechnology and Biochemical Engineering,** sponsored by the AICTE at the Department of Food Technology, Haldia Institute of Technology, West Bengal, May 5-6, 2011.

- **A.K. Barman :**"**Principle and Applications of Biosensor used in Dairy and Food Industry"** held on **5-6th May 2011**, in the **National Seminar** on Advancement in Food Technology: Role of Nanotechnology and Biochemical Engineering, at the Department of Food Technology, Haldia Institute of Technology, Haldia.

- **A.K. Barman :**Fermented Dairy Products as Neutraceuticals, **National Seminar on Recent Advances in the Development of Fermented Foods at the Centre of Food Science & Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi,** April 8-9, 2011.

- **Dr.C. Chakraborty** : "Bio-Preservatives and its Application in Dairy Industry" in the National Conference on New Horizons in Bio-Processing of Foods, organized by Department of Food Engineering and Technology, Sant Longowal institute of Engineering & Technology, Longowal, Punjab, held on 25-26th, February, 2011.

- **A.K Barman , Dr.K. Bandyopadhyay and Dr.C. Chakraborty :** "Development & Storage Studies of Whey Based Banana Herbal (Mentha arvensis) Beverage", in the National Seminar on Advancement of Food Technology: Role of Nanotechnology and Biochemical Engineering, sponsored by the AICTE at the Department of Food Technology, Haldia Institute of Technology, West Bengal, May 5-6th , 2011.

- **Dr. Subhajit Ray , Dr. A.Pal** : Abstract published on the topic of "Making of chocolate with milk and Milk Based Product" in the Seminar Proceedings in the Dairy Industry Conference organized by Indian Dairy Association (East Zone) at EZCC, Salt Lake, February, 2011.

- **Dr.A.Pal** : **"Chocolate- A Delicious Food"** Organized by the Dept. of Food Technology & Biochemical Engg., J.U. in collaboration with MOFPI, Govt. of India & Food Processing industries & Horticulture Dept. Govt. of West Bengal, June 25-26, 2011.

- **Dr Subhajit Ray**Attended and Delivered Lecture on the Topic of "Biotechnological Application of Lactic Acid Bacteria For The development Of Value Added Milk Beverages" in Seminar cum Talk Show on Frontiers Of Biochemical Engineering And Biotechnology In Value Addition Of Traditional Sweetmeat And Beverages With Nutraceutical Promising For Better Business Opportunity organized by Department Of Food Technology And Biochemical Engineering J.U at 16th March 2011(Abstract and full paper published)

- **Dr Subhajit Ray** : Abstract published on the Topic of "Preparation of Kinema Powder and Its utilization In Biscuit Making" in the Seminar Proceedings in the National Seminar in Recent

Advances In The Development Of Fermented Foods Organized by CFST under Institute of Agricultural Science , BHU On 8th& 9th April 2011

- **Dr Subhajit Ray** : Attended and Delivered Lecture in the Topic of "Fermentative Production of Bacterial Biosurfactant by using a 5 lit. EYELA Laboratory scale Fermenter" in the National Seminar on Advancement in Food Technology: Role of Nanotechnology and Biochemical Engineering(NBEFT-2011) held on 5th and 6th May2011 Organized by Department of Food Technology,Haldia Institute of Technology, Haldia(Abstract Published)

- **Dr Subhajit Ray** attended and Presented Poster in the Topic of "Nanocomposites in Food Packaging-A Novel Approach" in the National Seminar on Advancement in Food Technology: Role of Nanotechnology and Biochemical Engineering(NBEFT-2011) held on 5th and 6th May2011 Organized by Department of Food Technology, Haldia Institute of Technology, Haldia(Abstract Published)

- **Dr Subhajit Ray** : Attended & Delivered Lecture in the Topic of "Efficacy of Hurdle Technology as a Novel Food Preservation Technique in Context to Microbial Safety & Stability" in National Seminar On Current Technological Challenges in Food Processing Especially Emphasizing Food Irradiation held on 25th & 26th June 2011 Organized by Department of Food Technology & Biochemical Engineering, Jadavpur University,Kolkata-700032(Abstract& Full Paper Published)

National Journal

- **Debasree Ghosh, Prof.Parimal Chattopadhyay** : "Preparation of idli batter, its properties and nutritional improvement during fermentation" Journal of Food Science & Technology (Springer) 48(5),610,2011.

- **Dr.Sunita Adhikari, Prof. Parimal Chattopadhyay, Prof.Lalitagauri Ray** : "Bioremediation of Malathion from environment by a isolated Bacillus sp.S_{14} " Indian Chemical Engineer,2011, Vol.53 (2), 68-83.

- **Dr. C. Chakraborty** : Research Paper published in Jr. of Dairy Food International entitled "Studies on the quality and shelf life of microwave processed diabetic Payas", 1(1) 87-90, 2011.

International Seminar / Conference

- **Dr. Subhajit Ray** : Abstract accepted and permitted to publish about the Topic of "Preparation of Fortified Soymilk from Soybean for Better Nutrition and Human Benefits" in International Workshop on ROOTS Sustainable Agriculture: Traditional Indigenous Knowledge Systems and Food Security held on 3rd to 5th May 2011 organized by Chandragupta Institute of Management Patna, Bihar, India in association with UNESCO

International Journal

- **Dr. Subhajit Roy** : Research paper published on Studies on the Process Development for the Fermentative Production of Wine from Grape Juice Concentrate in Internet Journal of Food Safety, ISSN 1930-0670,Vol.13, 2011, p.367-373
- **Dr. Subhajit Roy** : Research paper published on Development of a Process for the Extraction of Pectin from Citrus Fruit Wastes viz. Lime peel, Spent guava extract, Apple pomace etc.in Internet Journal of Food Safety, ISSN 1930-0670,Vol.13, 2011, p.391-397.
- **Prof.Parimal Chattopadhyay:** "Preparation of idli batter, its properties and nutritional improvement during fermentation" Journal of Food Science & Technology (Springer) 48(5),610,2011.
- **Prof.Parimal Chattopadhyay, Dr. Sunita Adhikari:** "Bioremediation of Malathion from environment by a isolated Bacillus sp.S_{14}"Journal Indian Chemical Engineer 2011, Vol.53 (2), 68-83.
- **Dr.C. Chakraborty**: Research Paper published entitled "Studies on the quality and shelf life of microwave processed diabetic Payas" in the Jr. of Dairy Food International , 1(1): 87-90, 2011.
- **Dr. Anindita Karmakar:** Climate change: Environment congenial bio diesel production from crude neem oil, **Advances in Environmental Chemistry, 2011.**
- **Makhal, S., Giri, A. and Kanawjia, S. K. :** Effect of κ-carrageenan and tetrasodium pyrophosphate on the yield of direct acidified cottage cheese. Journal of Food Science and Technology. DOI 10.1007/s13197-011-0438-5 (NASS rating – 6.8; *Impact Factor* - 0.498).

DEPARTMENT: EE

National Seminar / Conference

- **S. Dutta, K. Meenalochani, N. Saha, S. Majumder**, " Design & Analysis and optimal tuning of a practical modified PID controller, for a third order system using MATLAB based simulation", National conference at BIET, SURI, during 5-6 February,2011

- **Pabal Deb, Sisir Majumder, Dipak Thakur, Akash Deb**, "Analysis and Design of a practical DC Servo Motor-Based Automatic Sun Tracking System", in the 2nd National Conference on Engineering Education in the New Century, held at Supreme Knowledge Foundation, Hoogly, during 20-21 January 2011

- **S. Bhattacharyya, P. Deb,** "Modulation of control strategies of PWM converters", in the National Conference on Recent Development in electrical engineering (NCRDEE -2011), at Jalpaiguri Govt. Engg. College, West Bengal, held during 9-10 June 2011

- **Sisir Mazumder, Susovan Dutta**, "Design of a Solar Water for savings on Domestic LPG for Cooking", ", in the National Conference on Recent Development in electrical engineering (NCRDEE -2011), at Jalpaiguri Govt. Engg. College, West Bengal, held during 9-10 June 2011

- **S. Ray, K. Meenalochi**, "An Explorative Study on the IT Tools and Techniques for improving organizational performance, managerial effectiveness and efficiency through knowledge management processes", National Conference on Recent Advances in Electronics, Electrical and Instrumentation Gadgets, at George Institute of Technology, held during 2-3 January 2011

National Journal

- **Nitushree Saha**, "Schottky Junction methane sensor using electrochemically grown nano crystalline nanoporous zinc oxide thin films", Journal of Sensor, 2010.

DEPARTMENT: ECE

National Seminar / Conference

- **Dr Annapurna Das, Dr. Sisir Kumar Das, Avali Ghosh, Aditi Mandal**, "Analysis and Measurements of EMC and SI in High Speed and High Frequency Printed Circuit Boards" AICTE sponsored National Seminar on Mobile Communication-2011

- **Dr Annapurna Das, Dr. Sisir Kumar Das, Avali Ghosh, Aditi Mandal**, "Studies of Mobile Handset Antennas" AICTE sponsored National Seminar on Mobile Communication-2011

- **Dr. Alok Kumar Das, Arun Komar Mondal** "Multi path Routing in Mobile Ad Hoc Network and an approach to Mesh Network" All India Seminar on Wireless Networks and Social Developments, January, 2010, IETE, Kolkata.

- **Arun Komar Mondal** "Implementing New Technologies in Mobile Ad-Hoc Network (MANET)" National Conference on 'Advancement in Information, Communication and Technology'. NCAICT paper Id: P_NCAICT2011_024. 2011

International Seminar / Conference

- **Arun Komar Mondal,** "Multi path Routing in Mobile Ad Hoc Network and an approach to Mesh Network" International Joint conference on Information and Communication Technology (JcICT) Interscience Institution of Management and Technology Bhubaneshar, 2010

- **Arun Komar Mondal** "Optimization of Transmission Range for MIMO Ad hoc Network in Fading Environment" 1st International Conference on Communication and Industrial Applications (ICCIA-2011) IEEE conference id:19700, Paper Id:158.

- **Arun Komar Mondal** "MIMO Ad-Hoc Networks-Mutual Information and Channel capacity", International conference COSIT 2011,Part1, CCIS 131, Springer-Verlag Berlin Heidelberg,. pp 225-235

- **Soma Manna,** "Super High Speed Hybrid Technology Challenges For Smart Solution In Spectral-Efficient High Data-Rate Wireless Networks"Wireless And Optical Communications Networks (WOCN), 2010 Seventh International Conference, pp. 1-5, 6-8 Sept. 2010

International Journal

- **Arun Komar Mondal** "Implementation of MIMO-OFDM system in Mobile AD-Hoc Networks", International Journal of Engineering Research and Applications (IJERA) Vol. 1, Issue 3,pp. 753-757, 2011.

- **Arun Komar Mondal** "Fading Analysis Of Mimo Based Mobile Adhoc Networks" International Journal of Distributed and Parallel systems (**IJDPS),** Vol.2, No.4, pp. 35-41,July 2011

- **Suparna Biswas** "Background Modeling and Implementation using Discrete Wavelet Transform", ICGST International Journal on Graphics, Vision and Image Processing, GVIP, March, 2011, Vol. 11

- **Koushik Pal**, "Contour Detection and Recovery through Bio-Medical Watermarking for Tele-diagnosis", International Journal of Tomography & Statistics (IJTS)", ISSN: 0972-9976, Volume- 14, Number-S10, pp-109-119,2010

DEPARTMENT: ASH

National Seminar / Conference

- **Dr. Indrajit Bose:** "From Pedagogue to Reflective Teacher: Insights into Teaching Practicum in an ESP Context, workshop for tertiary level teachers at the seminar "ESP and the Workplace" atthe Institute of English, Kolkata in September,2010.

- **Dr. Indrajit Bose :** "Reading Better, Learning Better: Developing Reading Skills, workshop for primary and secondary school teachers at TESOL seminar, American TESOL Institute, Kolkata in August,2010.

- **Dr. Indrajit Bose :** Interconnecting British & American Modernism February 2011 in Reconfiguring Modernism in the American Context at Jadavpur University Society of American Studies, JU, Kolkata.
- **Mr. Shantanu Chakraborty:** Participated in Infosys Campus Connect Soft Skills Workshop at Infosys, Bhubaneshwar.

National Journal

- **Ms. Sucharita Chakrabarti, Mr. Saibal Ranjan Ghosh and Mr. H.Dasgupta:** "Point wise quasicontinuity and Baire Space", Journal for Mechanics and Continua and Mathematical Sciences, vol.4, no.2, 2010, pp.459-471.

- **Mr. Saibal Ranjan Ghosh, Ms. Sucharita Chakrabarti and Ms. H.Dasgupta:** A Note Concerning the Invariance of Baire Spaces under Mappings", Bulletin of Pure & Applied Mathematics, vol.4. no.1, 2010, pp.152-156.ISSN:0019-5588.

International Seminar / Conference

- **Dr. Soma Mukherjee, Mr. B. K. Chaudhuri, Mr. H. Sakata and Mr. M. Wakaki :** Anomalous electronic transport in nanodiamond like carbon films :"International Conference on Quantum Effect on Solids of Today (ICONQUEST-2010), Dec 20-23, 2010, held at National Physical Laboratory (NPL) , New Delhi, India.

- **Ms. Sucharita Chakrabarti and Mr. H.Dasgupta** : "Study of Baire Spaces in Minimal Structures", International conference on recent Developments in Mathematical Sciences and their Applications (ICRDMSA 2010) held during December 9-11, 2010,Calcutta Mathematical Society, Kolkata.

- **Ms. Sucharita Bhattacharyya and Mr. Anup kr. Thander** : Compact Fourth –Order Finite Difference Method for Optical Wave-Guide', International Conference on Convergence of Optics with Electronics held during (26-27) th March, 2011 at Science City, organized by Calcutta University and JIS College of Engg., sponsored by SPIE, USA. ISBN:978-81-906401-1-4

International Journal

- **Dr. Soma Mukherjee, Mr. B. K. Chaudhuri, Mr. C.C. Chou, Mr. H. D. Yang, Mr. H. Sakata, Mr. M. Wakaki** : Thickness dependent metal-insulator transition in diamond-like-carbon films of different thickness: Bulletin of the American Physical Society, Vol 55, No. 2 2010.ISSN: 0003-0503

- **Mr. D. Maity, Mr. A. D. Jana, Mr. M. Debnath, Mr. N.G. R. Hearns, Mr. M. H. Sie, Mr. H.M. Lee, Mr. R. Clérac and Mr. M. Ali :** "A μ_3-alkoxo-bridged tetra nuclear $[Cu_4L_2]$ copper(II) complex of a novel hexadentate N_2O_4 donor ligand with a [6+0] Cu_4O_4 cubane core: Synthesis, crystal structure and magnetic studies". Eur. J. Inorg. Chem. 2010, 3484–3490. Impact factor: 3.12

- **Mr. Daipayan Dutta, Mr. Atish D. Jana, Mr. Mainak Debnath, Mr. Golam Mostafa, Mr. Rodolphe Clérac, Mr. Javier G. Tojal, and Mr. Mahammad Ali :**"Design of novel tri-substituted dodecatungstosilicate from a trilacunar silicotungstate by manganese ions of $[Mn_3(\mu_3\text{-}O)(2\text{-}Cl\text{-}benzoato)_6(py)_3]$: synthesis, structure, redox and magnetic studies." Eur. J. Inorg. Chem. 35, 2010, 5517-5522. Impact factor: 3.12

- **Mr. Daipayan Dutta, Mr. Atish D. Jana, Mr. Mainak Debnath, Mr. Asim Bhowmik, Mr. Jaromir Marek, Mr. Mahammad Ali** : "Robust 1D open rack-like architecture in coordination polymers of Anderson POMs $[\{Na_4(H_2O)_{14}\}\{Cu(gly)\}_2][TeMo_6O_{24}]$ and $[\{Cu(en)_2\}_3\{TeW_6O_{24}\}]$: synthesis, characterization and heterogeneous catalytic epoxidation of olefins.". Dalton Trans. 39, 2010, 11551-11559.

DEPARTMENT: CA

National Seminar / Conference

- **Dipankar Chatterjee**, "A Co-operative Black Hole Node Detection in MANET",in the national conference NCEC-2010, 24-25 September,2010, Bellary, Karnataka.

International Seminar / Conference

- **Animesh Kar, Deboprasad Mondal**,"Online Customer Reviews Analysis and Opinion Strength Measurement: A Fuzzy Approach". In IEEE 5th International Conference on Computer Sciences and Convergence Information Technology (ICCIT 2010), Seoul, Korea. Nov 30-Dec 2, 2010.

International Journal

- **Animesh Kar,Deboprasad Mondal**,"Finding Opinion Strength Using Fuzzy Logic on Web Reviews" published in International Journal of Engineering and Industries (IJEI, ISSN: 2093-5641), Vol-2, No-1, pp 37-43,March 2011.impact factor:1.0

DEPARTMENT: FMS

National Journal

- **Dr. Rajdeep Bakshi**, Prof. &HOD, "Optimal Level Product availability and Pricing for Retailer in Supply Chain of Seasonal Items With Stochastic Demand Including the Mixture of Backorder and Lost Sales", "Perspectives in Management (Journal of Heritage Institute of Management" in 2010.

2009-2010

DEPARTMENT: CSE

National Seminar / Conference

- **Dr. Santanu K. Sen, Avijit Kundu :** "Semantic Analysis of Video Image Using Adaptive Dual Cross Diamond Hexagon Search", National Conference on Ubiquitous Computing (NCUBQT-2009), during 22-23 September 2009 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114

- **Dr. Santanu K. Sen, Baisakhi Chatterjee :** "Digital Watermarking Using Discrete Wavelet Transform", National Conference on Ubiquitous Computing (NCUBQT-2009), during 22-23 September 2009 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114

- **Dr. Santanu K. Sen,** : "An Investigation Towards Performance Analysis of Some MAC Protocols", National Conference on Ubiquitous Computing (NCUBQT-2009), during 22-23 September 2009 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114.

- **Dr. Santanu K. Sen**: "An Efficient Route Discovery Protocol for Routing in MANET", National Conference on Ubiquitous Computing (NCUBQT-2009), during 22-23 September 2009 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114.

- **Avijit Kundu**, "Semantic Analysis of Video Image Using Adaptive Dual Cross Diamond Hexagon Search", National Conference on Ubiquitous Computing (NCUBQT-2009), during 22-23 September 2009 at Guru Nanak Institute of Technology, Sodepur, Kolkata-700 114

International Seminar / Conference

- **Mr. F. Ali Ahmed :**"Semantic Image Analysis for Identifying Human Image", International Conference of Visual Communication and Image Processing (VCIP)", Sanghai, China, 11-14 June, 2010.

- **Santanu K. Sen**, "Modified Routing Information Protocol (MRIP) Eludes CTI Problem", 15th International Conference on Computer Networks and Mobile Computing (ICCNMC), (Journal) Singapore organized by World Academy of Science, Engineering and Technology, Singapore to be held at during 26-28 August 2009

- **Mr. Amit Paul**, Sample Selection of Microarray data using Rough-Fuzzy based Approach, World congress on nature and biological inspired Computing (NABIC 09), Coimbatore India

DEPARTMENT: IT

International Journal

- **Anirban Kundu, Sutirtha Guha, Arnab Mitra;** Dynamic Web-page Ranking of Search Engine using Importance Increasing Factors(submitted for the International Journal of Intelligent Information and Database Systems (IJIIDS), Inderscience Publishers).

DEPARTMENT: AEIE

National Seminar / Conference

- **Adhish Kr. Chakrabarty & Samar Bhattacharya** "A Model Reference Adaptive Controller for a Single Input- Single Output Linear Time-varying Plant " Proc.of National Conference on Ubiquitous Computing, Kolkata, India, 22-23 September, 2009. (Organised by Guru Nanak Institute of Technology).

National Journal

- **Adhish Kr. Chakraborty** , "Adaptive Control of a Plant with Time-varying Structured Uncertainties - A New Approach" by Adhish Kr. Chakrabarty, & Samar Bhattacharyal, Journal of IE (India), vol. 90, pp.3-7, March 2010.

DEPARTMENT: FT

National Seminar / Conference

- **Dr.C. Chakraborty**."Antioxidant activity of different types of laboratory made Herbal Sandesh", in the 17th State Science & Technology Congress held at West Bengal University of Animal and Fishery Sciences, Belgachia, Kolkata, on 4th - 5th March, 2010.

- **Dr.A. Pal, Dr.Sunita Adhikari :**Oral Presentation in Seminar on Food Adulteration & Food safety on 15.01.2010.at Science Fair organized by Acharya Satyendra Basu Smarak Bijnan o Prajukti Mela Committee.

International Journal

- **Dr.Sunita Adhikari, Prof.Parimal Chattopadhyay, Prof.Lalitagauri Ray :** "*Biosorption of Malathion by Dry cells of a isolated Bacillus sp.S_{14}*". Journal of Chemical Speciations and Bioavailability22(3), 207-213, 2010.

- **Dr.Sunita Adhikari, Prof.Parimal Chattopadhyay, Prof.Lalitagauri Ray** :*"Biosorption of Malathion by Immobilized cells of a isolated Bacillus sp.S_{14}"*..Journal of Chemical Speciations and Bioavailability 22(4), 271-276, 2010.

- **Dr.A. Pal :** Heavy metal contamination in fruits and vegetables in two districts of West Bengal..India.E.J. Env. Agr. Food Chem . ISSN:1579-4377. 2010.

- **Dr.Sunita Adhikari,** Paper (Review) published at Research Journal of Environmental Toxicology (International) entitled **Bioremediation of Malathion from environment for Pollution Control** in June 2010.Vol No.4(3),147-150.

- **Dr. Anindita Karmakar :**Properties of various plants and animal feed stocks for bio diesel production, **Bioresource Technology (Elsevier), 101: 7201-7210, 2010.**

- **Debasree Ghosh, Prof.Lalitagauri Ray, Prof.Parimal Chattopadhyay**. *"Nutraceutical potential of cow milk and soymilk curd*". Journal of Indian Chemical Engg.(Taylor & Francis) 52(4),336,2010.

DEPARTMENT: EE

National Seminar / Conference

- **Nitusree saha**, Schottky junction methane sensor using electrochemically grown nanocrystalline nanoporous zinc oxide thin films, Journal of Sensor,2009

- **Rituparna Mukherjee**, *A neuro-fuzzy hybrid control technique for control of tank level n in a lubricant processing plant*, IET National Conference, 2009

DEPARTMENT: ECE

National Seminar / Conference

- **Dr. Arun Kr. Mondal** " Improving Security in Multipath Routing for Mobile Ad Hoc Networks" Silver Jubilee Conference on Communication Technology (Commv-2009)

- **Dr. Arun Kr. Mondal** "Secure Multipath Routing in Mobile Ad Hoc Network" Proceedings of National conference on Ubiquitous Computing-2009

DEPARTMENT: ASH

National Seminar / Conference

- **Dr. Arun Kr. Mondal** "Secure Multipath Routing in Mobile Ad Hoc Network" Proceedings of National conference on Ubiquitous Computing-2009

- **A.K.Dey, K.Biswas**: Dry Sliding wear of Zirconia toughened alumina with different metal oxide additives Ceramics International, 35 (3), 2009, 997-1002.

International Seminar / Conference

- **A.K.Dey, K.Biswas**: Dry Sliding wear of Zirconia toughened alumina with different metal oxide additives Ceramics International, 35 (3), 2009, 997-1002.

- **Soma Mukherjee, B. K. Chaudhuri, C. C. Chou, H. D. Yang, H. Sakata and M. Wakaki** Thickness dependent metal insulator transition in diamond-like-carbon films of different thickness: " APS March Meeting 2010, March 15-19, 2010, held at Portland, Oregon, USA."

DEPARTMENT: FMS

National Seminar / Conference

- **Dr. Rajdeep Bakshi, Prof. &HOD, "**Perspectives on Brand Valuation", "Perspectives in Management The Journal of Heritage Institute of Management", in July 2009.

National Journal

- **Dr. RajdeepBakshi, "**An Analysis of the Market Position of Various Landline Service Providers in Kolkata using Perceptual Mapping Approach", "Journal of SIES College of Management Mumbai"in Jan 2009.

2008-2009

DEPARTMENT: CSE

National Seminar / Conference

- **Santanu K. Sen, S. Sinha Roy**, "A Self-Checking Circuit for Concurrent Checking by 1-out-of-4 code with Design Optimization using Constraint Don't Cares", National Conference on Emerging trends and advances in Electrical Engineering and Renewable Energy (NCEEERE 2008), Sikkim Manipal Institute of Technology, Sikkim, held during 22 – 24 December, 2008

- **Dr. Santanu K. Sen** : "Internetworking of Multiple LANs using Extended Proxy ARP Avoids Low-Level Security Threats", National Conference on Computing & Communication Systems (CoCoSys-

09), held during 02-04 January, 2009, University Institute of Technology, The University of Burdwan.

- **Santanu K. Sen, S. Sinha Roy, S. Haldar**, "A Low-cost Multimedia Projector using Scan Method and Chip Laser Diode", National Conference on Emerging trends and advances in Electrical Engineering and Renewable Energy (NCEEERE 2008), Sikkim Manipal Institute of Technology, Sikkim, held during 22 – 24 December 2008

- **Santanu K. Sen, S. Maiti**, "An Efficient Routing Algorithm for MANET using Restricted Flooding", National Conference on Emerging Trends in Information Technology (NCTIT -08), Gandhi Institute of Engineering & Technology, held during 01-02 November 2008

- **Santanu K. Sen, S. Sinha Roy**, "An Optimized Concurrent Self-Checker using Constraint-Don't Cares and 1-out-of-4 Code", National Conference (AECDISC-2008) in Asansol Engineering College, held during 1-2 August 2008

National Journal

- **Santanu K. Sen, S. K. Ray**, *"Fast Convergent Distance Vector Routing avoids CTI"*

International Seminar / Conference

- **Mr. Santanu Halder**, Face Synthesis System for Generation of a Face Image from Human Description, 2008 IEEE Region 10 Colloquium and the Third International Conference on Industrial and Information Systems (ICIIS)

DEPARTMENT: ECE

National Seminar / Conference

- **Dr. Arun Kr. Mondal** "The Success of Data Transmission in Multipath Routing for MANET" National Conference on Mobile and Pervasive Computing (CoMPC-2008)

DEPARTMENT: EE

National Seminar / Conference

- **Nitusree saha**, Nanoporous Zinc oxide thin films deposited by electrochemical anodization: effect of uv Sensor Letters Vol:6, 1-7,2008

- **Nitusree saha**, the superior performance of the electrochemically grown zinc oxide thin films as methane sensoR Sens. Actuator B:Chem(2008)

DEPARTMENT: AEIE

International Seminar / Conference

- **Adhish Kr. Chakraborty& Samar Bhattacharya**, "A Model Reference Adaptive Controller for Linear Time- Varying Multivariable Plant - A New Approach" Proc. Of International Conference & exhibition on Aerospace Engineering, Bengaluru, 18-22 May, 2009, held at IISc, Bangalore.

DEPARTMENT: ASH

National Seminar / Conference

- **Listening Effectively: Self-Reflexive Strategies for ESL Learners**—1 hr workhop conducted for secondary and tertiary-level teachers at 2nd National and 6th Vidarbha Regional ELTAI Conference held at Nagpur, 10-11th January,2009

National Journal

- **Sobha Chattopadhay**: "Bound to Ixion's Wheel: The Fate of the Eurasian in Conrad and Maugham," The Many Worlds of Twentieth Century Literature, ed. (Jadavpur University, 2008): 35-44.
- **Bijali Bhattacharya**, **Shamima Sultana andSuryendu Chakraborty** :"Bridging the Gap: Choosing Culture-Specific ESL Materials." Inside Teaching:Options for Language Teachers. Ed.. (Krishnagar Women's College, December 2008): 35-43.

DEPARTMENT: FMS

National Seminar / Conference

- **Dr. RajdeepBakshi, Prof. &HOD, "**The Utility of the Applications of Valuation Methods in Indian Companies", "Pacific Business Review, Udaipur". in March 2009
- **Dr. Rajdeep Bakshi, Prof. &HOD, "**The Contributors of Brand Health: A Study", "Journal of Institute of Technology and Management, Warrangal" in June 2009.

National Journal

- **Dr. RajdeepBakshi, Prof. &HOD, "**An Analysis of the Market Position of Various Landline Service Providers in Kolkata using Perceptual Mapping Approach", "Journal of SIES College of Management Mumbai"in Jan 2009.

2007-2008

DEPARTMENT: AEIE

International Seminar / Conference

- **Adhish Kr. Chakraborty & Samar Bhattacharya**,"A Model Reference Adaptive Controller for Linear scalar plant with Time- Varying structured uncertainty" Proc. Of International Conference on Power System Application and Control. PSACO-2008, 13-15 March, 2008, Andhra University, Vishakhapattanam

DEPARTMENT: FT

International Seminar / Conference

- **Dr.K. Bandyopadhyay**, Preparation and Characterisation of Protein Hydrolysates from Indian Defatted Rice Bran Meal, **J. Oleo Science, Japan**, 57, 47-52 (2008).

- **Dr.C. Chakraborty**, "Development and quality evaluation of Herbal Sandesh" in the International Conference on Traditional Dairy Foods at Karnal, Haryana, held on 14-17 November, 2007.

- **Dr.S. Adhikari,** " Abstract published in seminar proceedings and Poster presented at International Conference at NIST-Trivandrum in November 2007 on Bioremediation of Malathion by isolated strain of Bacillus sp.S_{14}

2006-2007

DEPARTMENT: CSE

National Seminar / Conference

- **Santanu K. Sen**, "Internetworking of Multiple LANs using Extended Proxy ARP", Proceedings of the National Conference on Recent Trends in Information Systems (ReTIS) 2006, organized by IEEE Calcutta Section, held at Jadavpur University Kolkata, during July 14-15, 2006, pp 113-116
- **Santanu K. Sen, Arun Kr. Mandol**, "Multi Protocol Label Switching Quality of Service in MANET", Proceedings of the National Conference on Recent Trends in Information Systems (ReTIS) 2006, organized by IEEE Calcutta Section, held at Jadavpur University Kolkata, during July 14-15, 2006, pp 117-120
- **Santanu K. Sen, S. K. Ray, P. Ghosh**, "Modified Distance Vector Routing in MANET", Proceedings of the 13th National Conference on Communications (NCC 2007), held at IIT Kanpur, Jan. 26-28, 2007, pp 197-202.

International Seminar / Conference

- **Santanu K. Sen**, "Modified Address Resolution Protocol that Avoids ARP Vulnerabilities", International Conference (PICA 2006), Karnataka, during July 12-14, 2006
- **Santanu K. Sen**, "Secured Address Resolution Protocol (SARP) Avoids ARP Cache Poisoning", Proceedings of 1st International Conference on Information Security Systems (ICISS 2005), held at School of Information Technology, Chennai during 16-17 December 2006.

DEPARTMENT: FT

National Seminar / Conference

- Prof.S.P. Sarkar,; Prof.P. Maiti,; M. Mandal and **Dr.C.Chakraborty**, (2007). *Adoption of standard packaging materials and techniques in the dairy industry*. Indian Dairyman. 59(4): 45-48.
- Prof.S.P. Sarkar,; M. Mandal and **Dr.C.Chakraborty**, (2007). *Beneficial effects of probiotics used as food*. Beverage & Food World. 34 (7): 40-42
- **Dr. Subhajit Ray** Paper Presented on *Microbial Enzyme Production, Purification & Immobilization* in QIP sponsored by AICTE & organized by Department of Pharmaceutical Science and Technology, BIT Mesra on June 2007.

- Dr.**C. Chakraborty (**2006) Studies on the quality and shelf-life of microwave processed diabetic Payas", in the Dairy Industry Conference at Swabhumi, Kolkata, held on 23-25 November, 2006.

DEPARTMENT: ECE

National Seminar / Conference

- **Dr. Arun Kr. Mondal** "Multiprotocol Level Switching Quality of Service in MANET" National Conference on Recent Trends in Information System -ReTIS 06, J.U &IEEE Kolkata SectionJuly, 2006.
- **Dr. Arun Kr. Mondal** "A Set of Optimal Paths Selection for Multipath Routing In Wireless Ad Hoc Network" National Conference on Device, Intelligent System and Communication Networking

International Seminar / Conference

- **Dr. Arun Kr. Mondal** "*MACA-RO: A Reduced Overhead MACA Protocol for Multi Hop Wireless Ad Hoc Network"* International Conference on Computer and Devices for Communication – CODEC 2006

DEPARTMENT: ASH

International Seminar / Conference

- **"On Alien Shores**": Migrancy and its Aftermath in Jamaica Kincaid's Narratives." Studies in American Literature, Vol. 4 (2006): 51-8.
- "Designing the Lesson: Using Teaching Resources in the Language Classroom. Paper presented in the international symposium, "Towards Improvements in EnglishLanguage and Literature Teaching: Communicating across the Curriculum," at DAV College,Chandigarh, between 22nd and 24th September.

2005-2006

DEPARTMENT: CSE

National Seminar / Conference / Journal

- **Santanu K. Sen**, "Loop free Scan Routing (LFSR) Avoids Count-To-Infinity Problem", Proceedings of the Conference on Recent Trends in Emerging Technologies (RTET-2006), held at B.P. Podder Institute of Management & Technologies, Kolkata, on Feb 25, 2006, pp 6-10
- **Santanu K. Sen**, "Aliphatic Distance Vector Routing (ADVR) Eludes Routing-Loops", Proceedings of the National Conference on Soft Computing Techniques for Engineering (SCT-2006), held at NIT, Rourkela, Orissa, during March 24-26 2006, pp 52-59
- **Santanu K. Sen**, "Security Threats in Address Resolution Protocol and their Remedies", Proceedings of the National Conference on Ubiquitous Computing (NCUC 2006), held at NMAM Institute of Technology, Nitte, Karnataka, during February 23-24, 2006, pp 49-53
- **Santanu K. Sen, S. K. Ray, P. Ghosh**, "Modified BGP Has Faster Convergence", Proceedings of the 12th National Conference on Communications (NCC 2006), held at IIT Delhi, during January 27-29, 2006, pp 145-150

International Seminar / Conference

- **Santanu K. Sen**, "Modified Address Resolution Protocol that Avoids ARP Vulnerabilities", 1st International Conference on Information Security Systems (ICISS 2005) held at School of Information Technology, Chennai.

DEPARTMENT: FT

National Seminar / Conference

- **Pal. A., Prof.L. Ray,& Prof.P. Chattopadhyay,** (2006) Purification and Immobilization of an Aspergillus terreus Xylanase : Use of Continuous Fluidized Bed Column Reactor.Ind. J. Biotechnol, 5, 163-168

International Seminar / Conference

- **Dr.K. Bandyopadhyay**, Extraction of Protein from Microwave and Enzymatically Treated Rice Bran Meal, **26th World Congress and Exhibition of The International Society for Fat Research, Hilton Prague, Czech Republic**, September 25-28, 2005

- **Dr.K. Bandyopadhyay** Preparation and Characterization of Enzyme-modified Rice bran Protein Isolate, **60th Annual Convention of OTAI and International Seminar**, held at Indian Institute of Chemical Technology (IICT), Hyderabad, December 2-3,2005.

DEPARTMENT: ASH

National Seminar / Conference

- **Soma Mukherjee, S. Karmakar, B. K. Chaudhuri and H. Sakata** :Low Temperature Metallic Behavior of Amorphous MoO_3-TeO_2 Thin Films :: J. Appl. Phys.97 (2005) 123707

- **Soma Mukherjee and B. K. Chaudhuri**: Anomaly in the transport and dielectric properties of some CCTO-type materials : in "50th DAE-Solid State Physics Symposium, 5-9th Dec 2005, BARC and TIFR, Mumbai, India.

International Seminar / Conference

- **Soma Mukherjee, H. Sakata and B. K. Chaudhuri** :Metal-Insulator Transition in the Vacuum deposited Amorphous MoO_3-TeO_2 Films : Chinese J. of Phys 43(3) (2005) 736

2004-2005

DEPARTMENT: CSE

National Seminar / Conference

- **Santanu K. Sen, S. Deb Roy**, "Enterprise Network Solution", National Contest and Conference 2002, organized by Computer Society of India, Kolkata Chapter in Sept 2004.

National Journal

- **Santanu K. Sen** , "Operating System Independent Remote Operation and Control of Machines in Ethernet LAN", FOSET Journal 2004, Kolkata.

DEPARTMENT: AEIE

International Seminar / Conference

- **Jayita Datta, M.Mitra, S.Sengupta,** " Second Harmonic Injection in an Adjustable Frequency Inverter (AFI) Fed AC Variable Speed Drive (VSD)" in The International Conference on Energy,Information Technology & Power Sector "PEITSICON-2005", organised by The IEE (UK),Calcutta Branch, Jadavpur University and others on 28-29 January,2005.

DEPARTMENT: FT

National Seminar / Conference

- **Dr.K. Bandyopadhyay:** Effect of Soyabean Oil and Soy Lecithin on Cellular Fatty Acid Profile of Pseudomonas sp., , J. Oil Technologists' Association of India ,37 (2005).
- **Dr.S.Adhikari, Prof.P.Chattopadhyay, Prof.L.Ray** Seminar paper at National Conference organized by Dept. of Botany, Visva- Bharati, Santiniketan on Degradation of Malathion by a isolated Bacterial Strain in 17-19th Feb,2005

DEPARTMENT: ASH

National Seminar / Conference

- **Soma Mukherjee and B. K. Chaudhuri** :Transport and dielectric properties of $CaCu_3Ti_4O_{12}$ type giant dielectric constant materials: in Condensed Matter Days- 2003, 27-29 Aug. 2004, Dept. of Phys. Jadavpur University, Kolkata, India"

- **Soma Mukherjee, Pradip Jana, Sudipta Pal and B. K. Chaudhuri** :Giant Dielectric constant observed in $K_xTi_yNi_{1-x-y}O_\delta$ (x=0.06-0.03, y=0.02) : in "Condensed Matter Days- 2004, 27-29 Aug. 2004, Dept. of Phys. NEHU, Shillong, India"

- **Soma Mukherjee, H. Sakata and B. K. Chaudhuri** :Transport properties of DLC films showing thickness dependent metal insulator transition : communicated to "47th DAE-Solid State Physics Symposium to be held on 26-30th Dec 2004, Punjab University, Amritsar, India".

- **Pradip Jana, Sudipta Pal, S. Mukherjee, S. S. Bhattacharya, B. K. Chaudhuri, H.D.Yang** Giant dielectric constant observed in $K_xTi_yNi_{1-x-y}O$(x=0.06-0.03, y=0.02) : communicated to "47th DAE-Solid State Physics Symposium to be held on 26-30th Dec 2004, Punjab University, Amritsar, India.

- "**Approaches to the American Short Story: Poe's "The Fall of the House of Usher" and Steinbeck's "The Chrysanthemums**". English Study Centre Newsletter.(March 2005):18-22

International Seminar / Conference

- Transformation of T_C superconducting phase in $Bi_{2-x}Pb_xSr_2Ca_2Cu_{3-y}A_yO_\delta$ (A = K, Na ; x = 0.1-0.3 ; y = 0.1-0.3) to the ferroelectric phase by K and Na doping : **Soma Mukherjee, S. Mollah, H. D. Yang and B. K. Chaudhuri** in "2004 Taiwan International Conference on Superconductivity and the 7th Workshop on Low temperature Physics, July 5-9, 2004, Penghu, Taiwan"

- Metal-Insulator Transition in the Vacuum deposited Amorphous MoO_3-TeO_2 Films : **Soma Mukherjee, H. Sakata and B. K. Chaudhuri** in "2004 Taiwan International Conference on Superconductivity and the 7th Workshop on Low temperature Physics, July 5-9, 2004, Penghu, Taiwan"

2003-2004

DEPARTMENT: CSE

National Seminar / Conference

- **Santanu K. Sen, S. K. Ray, Saurav Poira**, "*Modified DVR (MDVR) Avoids Count-to- Infinity problem*", Proceedings of the National Conference InfoQuest 2004, held at Asansol Engineering College, Asansol, during February 16-17, 2004, pp 23-28.

National Journal

- **Santanu K. Sen, Dr. M. K. Chakraborty**, "*Bounded Compression on Image Compression and intelligent segmentation*", RPS 2004, February 6-8, 2004 under AICTE Research Promotion Scheme.
- **Santanu K. Sen, Dr. M. K. Chakraborty**, "Development of a Network Traffic Scheduling Algorithm for Packet Switched Networks using artificial intelligence", RPS 2004, February 6-8, 2004 under AICTE Research Promotion Scheme.

International Seminar / Conference

- **Santanu Sen, S. K. Ray, Saurav Poira**, "*Modified Distance Vector Routing Avoid Count-to-Infinity problem*", Proceedings of the International Conference on Communication, Devices and Intelligent Systems (CODIS 2004) held at Park Hotel, Kolkata, during January 8-10, 2004, pp 31-34

DEPARTMENT: AEIE

National Seminar / Conference

- **S.Sengupta,M.Mitra,S.Mitra, J.Datta**:" Power Quality Assessment of an Electric Power System by Harmonic Phasors" at 11th State Science & Technology Congress on 28-29th February,2004.

International Seminar / Conference

- **M.Mitra, S.Sengupta, J.Datta** :" MCSA through its Fourier's Spectra to Detect Wide Range Voltage Fluctuations at the terminals of a Rotating Machine" in The International Conference on "Communication ,Devices and Intelligent systems (CODIS) 2004 organised by Department of ETCE, Jadavpur University on 8-10 January,2004.

DEPARTMENT: FT

National Seminar / Conference

- **Dr.K. Bandyopadhyay** and S. Ghosh, Preparation and Characterization of Papain-Modified Mustard (*Brassica juncea* L.) Protein Isolates, ,***Brassica***, 5, 68-72 (2003).

- **Dr.K. Bandyopadhyay** Protein Extraction from Microwave Treated Rice Bran Meal, **58th Annual Conferrence of OTAI**, Nov. 21-23, 2003.

- **Dr.K. Bandyopadhyay** Effects of Some Non-Triglyceride Components on GLA Productivity by Rhizopus nigricans, **58th Annual Conferrence of OTAI**, Nov. 21-23, 2003.

- **Dr.K. Bandyopadhyay** Preparation of Dietary Fiber form Deoiled Rice Bran Meal, **58th Annual Conferrence of OTAI**, Nov. 21-23, 2003

International Seminar / Conference

- **Dr.K. Bandyopadhyay** and S. Ghosh Preparation and Characterization of Papain Modified Sesame (*Sesamum indicum* L.) Protein Isolates, ***J. Agric. Food Chem.,* USA,**50, 6854-6857 (2003).

- **Dr.K. Bandyopadhyay** and S. Ghosh Effects of Mineral Addition on the Production of γ-Linolenic Acid by *Rhizopus nigricans*,, ***J. Oleo Science*, Japan**, 52, 215-219 (2003).

DEPARTMENT: ASH

National Seminar / Conference

- **Soma Mukherjee, B. K. Chaudhuri and H. Sakata**: Comments on "Possible observation of a glassy ferroelectric $Bi_{1.8}Pb_{0.3}Sr_2Ca_2Cu_{2.8}K_{0.2}O_z$" : Phys. Rev. B. 68(1) (2003) 016101.

- **Soma Mukherjee, B. K. Chaudhuri and H. Sakata**: Polaron hopping conduction to metallic conduction in amorphous MoO_3-TeO_2 films in "46th DAE-Solid State Physics Symposium to be held on 26-30th Dec 2003, Jiwaji University, Gwalior, India"

National Journal

- **Soma Mukherjee, H. Sakata and B. K. Chaudhuri S. Mollah and H. D. Yang**: Transport and dielectric properties of K doped glassy precursor for high T_C superconductor showing ferroelectric behavior due to embedded nanocrystalline ferroelectric phase: J. Appl. Phys. 94(2) (2003) 1211; Virtual J. Appls of Superconductivity 5(1) 1st July 2003

International Seminar / Conference

- 2003 **"Through Magic Casements:"** Childhood Vision in Frances Hodgson Burnett, paper delivered at the International Seminar, Reading Children, held at Jadavpur University (11th--13th December).

STUDENT PUBLICATION

(From 2003 to June, 2024)

Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
CSE	0	6	40	60	106
ECE	0	37	85	36	158
EE	0	27	17	38	82
IT	0	0	36	29	65
FT	10	64	54	47	175
ECS/ AEIE	0	7	4	27	38
CA	0	1	4	2	7
ASH	0	10	5	28	43
TOTAL	10	152	245	267	674

STUDENT PUBLICATION SUMMARY BREAKUP

Academic Year	Dept	National Journal	National Seminar/Conference	International Journal	International Seminar/Conference	Total
2023-24	FT	0	10	6	3	19
	IT	0	0	14	0	14
	ECS	0	2	0	1	3
	CSE	0	1	8	11	20
	EE	0	7	6	0	13
	ECE	0	18	47	0	65
	ASHU	0	2	3	5	10
	CA	0	1	2	0	3
		0	41	86	20	147
2022-23	FT	0	4	4	6	14
	ECSE	0	2	0	9	11
	IT	0	0	10	5	15
	CSE	0	1	7	7	15
	EE	0	7	1	6	14
	ECE	0	15	9	10	34
	ASHU	0	7	0	0	7
		0	36	31	43	110
2021-22	FT	0	1	7	1	9
	AEIE	0	0	0	2	2
	IT	0	0	0	9	9
	CSE	0	0	9	8	17
	EE	0	0	7	4	11
	ECE	0	4	14	2	20
	ASHU	0	0	2	0	2
	CA	0	0	0	2	2
		0	5	40	28	73
2020-21	FT	0	0	15	0	15
	AEIE	0	0	1	3	4
	IT	0	0	0	3	3
	CSE	0	0	0	4	4
	EE	0	0	1	2	3

	ECE	0	0	7	7	14
	ASHU	0	1	0	13	14
	CA	0	0	0	0	0
		0	1	24	32	57
2019-20	FT	0	0	4	15	19
	AEIE	0	0	0	4	4
	IT	0	0	0	5	5
	CSE	0	0	5	20	25
	EE	0	1	0	18	19
	ECE	0	1	0	13	14
	ASHU	0	0	0	9	9
		0	2	8	84	94
2018-19	FT	0	6	4	0	10
	AEIE	0	0	0	0	0
	IT	0	0	6	4	10
	CSE	0	2	6	4	12
	EE	0	2	0	3	5
	ECE	0	0	0	0	0
	ASHU	0	0	0	0	0
		0	10	16	11	37
2017-18	FT	0	14	9	1	24
	AEIE	0	0	0	6	6
	IT	0	0	4	0	4
	CSE	0	0	1	6	7
	EE	0	10	0	5	15
	ECE	0	0	0	3	3
	ASHU	0	0	0	1	1
		0	24	14	22	60
2016-17	FT	8	24	5	12	49

	AEIE	0	3	2	2	7
	IT	0	0	1	0	1
	CSE	0	2	4	0	6
	EE	0	0	2	0	2
	ECE	0	0	3	0	3
		8	29	17	14	68
2015-16	CSE	0	0	6	0	6
	ECE	0	0	5	1	6
	EE	0	0	0	0	0
	IT	0	0	1	3	4
	FT	2	8	0	10	20
	AEIE	0	0	0	0	0
	ASH	0	0	0	0	0
	CA	0	0	2	0	2
		2	8	14	14	38

2023-24

DEPARTMENT: CSE:

International Journal

- **Sandipan Mukhopadhyay, Shampurna Rakshit, Riddhi Lahiri, Diprit Turul,Ujan Ghosh, "Distributed Denial of Service Attack for Virtual Cloud Computing: A Review"** published in GRADIVA REVIEW JOURNAL,VOLUME 10 ISSUE 3, (Scopus indexed),ISSN -0363-8057 Impact factor-6.34, March 2024

- **Ayan Das, Sayantanee Santra "Integrated Aided Learning System for Deaf-Dumb People"** published in Journal of Technology, VOLUME 12 ISSUE 3, (Scopus indexed),ISSN -0363-8057 Impact factor-6.34, March 2024

- **Shreeja Sinha, "A Distributed Approach for Energy Hole Minimization in Wireless Sensor Networks"** published in GRADIVA REVIEW JOURNAL, VOLUME 10 ISSUE 6, *(Scopus indexed and UGC – CARE (Group – II) listed)*, Page No: 122-125, ISSN No: 0363-8057, Impact factor-6.3, June 2024

- **Sumana Maity, Sanku Das Bairagya "Role of Fog Computing, Cloud computing and Big data for Healthcare Applications in line with Industry 4.0"** published in Journal of Technology, VOLUME 12 ISSUE 6, (Scopus indexed and UGC – CARE (Group – II) listed), ISSN: 1012-3407, June 2024

- **Sunny Guha "A Machine Learning Approach to Identify Customers for Subscribing Term Deposit"** published in Alochana Journal, Ugc Care Group - I Journal, ISSN: 2231-6329, May 2024

- **SUBHANKHI PAUL , NANDINI SAWDAGAR , SHREYA MUKHERJEE, TANUSHKA GHOSH "POCKET HEALTH CARE"**, published in JOURNAL OF TECHNOLOGY, volume 12 issue 4,2024,ISSN 1012-3407,June 2024.

- **Rajib Lochan Nandi, Tanmana Das, Sayan Kar, Akshat Sinha, Richa Sharma, Arka Chowdhury, "IoT Based Suitable Crop Identification Technique after Analyzing soil and Predicting local Weather"** published in Gradiva Review Journal(International Journal), GRJ volume-9, Issue-11, ISSN -0363-8057 Impact factor-6.34, November 2023.

- **Sagnik Gope, Snigdhadip Bandyopadyay, Abhik Deb, Ayshik Das, Mahmuda Sultana, Suman Bhattacharya "Gesture based Volume Controlling System using Hand Gesture"** ISJEM Journal,2023.

Book Chapter

- **Sultana, Mahamuda, Suman Bhattacharya, Ananjan Maiti, Adarsh Pandey, and Diganta Sengupta. "A Deep CNN Framework for Oral Cancer Detection Using Histopathology Dataset."** In International Conference on Computational Intelligence in Communications and Business Analytics, pp. 239-248. Cham: Springer Nature Switzerland, 2023.

- **Sayani Chandra, Sangeeta Bhattacharya, and Mriganavi Dutta. "Depression inducing emotion detector in online social networks."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Mandira Banik, Sudeep Ghosh, Amrut Ranjan Jena, and Hrittika Maity. "Recognizing chemical structures drawn by hand using deep learning algorithms and predict probable chemical structure."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Amrut Ranjan Jena, , Santanu Kumar Sen, Madhusmita Mishra, Shrutarba Banerjee, Nupur Dey, and Ipsita Saha. "A comparative analysis of financial fraud detection in credit card by decision tree and random forest techniques."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Moloy Dhar, Amrut Ranjan Jena, and Paromita Saha. "Caption an object using the pre-trained deep learning model for single shot multi-box detector."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Sayani Chandra, Sangeeta Bhattacharya, and Mriganavi Dutta. "Depression inducing emotion detector in online social networks."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

- **Sangeeta Bhattacharya, Sayani Chandra, and Debasish Dhar. "Customer behaviour forecasting using predictive analysis of sales data."** In AIP Conference Proceedings, vol. 2876, no. 1. AIP Publishing, 2023.

National Conferences

- **Anish Aich, Barna Barman, Arghyadeep Maiti, Dia Nandy "Secure And Advance Online Election System"** In Machine Learning in Healthcare Applications (MLHA 2024) , organized by Department of Electronics & Communication Engineering, Guru Nanak Institute of Technology, 18-19, April 2024

International Conferences

- Mahamuda Sultana, Suman Bhattacharya, Ananjan Maiti**, Adarsh Pandey, and Diganta Sengupta. "A Deep CNN Framework for Oral Cancer Detection Using Histopathology Dataset."** In *International Conference on Computational Intelligence in Communications and Business Analytics*, pp. 239-248. Cham: Springer Nature Switzerland, 2023.

- **Bipronil Ghosh, Anuska Mukherjee, Debjoty Chandra**, Nilanjana Adhikari, Suman Bhattacharya, Mahamuda Sultana, Sourish Mitra,Sayan Nath **"Botanic Renaissance: Empowering Ayurveda through YOLOv8 - A Technological Symphony of Plant Identification, Commerce, and Conservation"** in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.

- **Ipsita Nayak, Moulima Mukherjee, Satyam Kumar Chhetri, Shivam Chaudhary**, Mahamuda Sultana, Suman Bhattacharya, Nilanjana Adhikari **" Stock Price Prediction: A Comparative Study using Various Models of Machine Learning and Deep Learning"** in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.

- **Arnab Chowdhury, Priyanshu Chakraborty, Tridha Das, Rishav Gupta, Adarsh Pandey, Dipanjan Biswas**, Mahamuda Sultana, Suman Bhattacharya **" Yield Prediction and Agricultural Crop Recomendation –A Machine Learning Approach"** in Recent Innovation in Science, Communication & Computation 2024 organized by Department of Computer Science and Engineering of JIS University on 19th & 20th April 2024.

DEPARTMENT: ECE:

International Journal

- **Chandrima Banerjee, Aritra Sarkar, "GPS based Identification System using Microcontroller"** International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 11, Issue 8, August. 2023, ISSN No:-2321-9653, (UGC Care)

- **Antara Sarkar, Animesh Das, Ankita Roy, Sayan Roy, Adrita Roy, Kaushik Roy, "Automatic Signal and Gate System"** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), VOLUME 11, ISSUE 12, ISSN: 2321-9653, December 2023.

- **Sonali Podder, Sougata Dey, Soumyadeep Mahapatra, Soumyasis Das, Souramita Banik, Nabaneeta Banerjee, "Automatic Irrigation System by 555 IC"** published in International Journal of Advances in Engineering and Management (IJAEM), VOLUME 6, ISSUE 1, pp: 598-602, ISSN: 2395-5252, February 2024.

- **Abhishek Das, Abhishek Samanta, Abinash Kr. Mandal, Abhishek Kr. Thakur, Abhishek Kumar, "Clap Switch Circuit Using Ic 4017",** International Journal Of Creative Research (IJCRT), ISSN: 2320-2882, VOLUME 12, ISSUE 2, ISSN: 2320-2882, February 2024.

- **Chandrima Banerjee, Tushar Patra, Debasish Saha, Nabaneeta Banerjee, "SOLAR POWER ENABLED MOBILE CHARGER"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2398-2402, ISSN: 2582-5208, June 2024, https://www.doi.org/ 10.56726/IRJMETS59208

- **Rupkatha Goswami, Souvik Maiti, Sayandip Dutta, Abir Mitra, Nabaneeta Banerjee, "5G Connectivity Enhancement: Analysis And Optimization of Antenna Arrays"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2376-2380, ISSN: 2582-5208, June 2024.

- **Abir Mitra, Arkaprova Das, Nabaneeta Banerjee, Palashri Dhar, Sunipa Roy, "The Evolution and Prospects of AI & ML: Unveiling The Past And Shaping The Future"**

published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp:3286-3291, ISSN: 2582-5208, June 2024.

- **Ankush Biswas, Ananya Jana, Anwesha Mukherjee, Abir Mitra, Anwesh Ganguly, Arkaprova Das, Nabaneeta Banerjee, "Smart Fabrics: Innovations And Applications In E-Textiles"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2403-2409, ISSN: 2582-5208, June 2024.

- **Abir Mitra, Aditi Ray, Aman Kumar, Ananya Jana, Nabaneeta Banerjee, "Development of a High Efficiency Solar Inverter Using MOSFET"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2560-2566, ISSN: 2582-5208, June 2024.

- **Biswambhar Saha, Chandril Ghosh, Maitrabha Roy, Ezaz Rahaman, Mangal Dip Nag, Nabaneeta Banerjee, "ADVANCEMENTS IN MEDICAL ROBOTICS: REVOLUTIONIZING HEALTHCARE"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2366-2371, ISSN: 2582-5208, June 2024.

- **Smarta Das, Rohan Pal, Bikram Ghosh, Aniket Das, Adeeb Hussain, Nabaneeta Banerjee, "EFFICIENCY IN FLUX: A PROJECT ON LED DIMMING TECHNOLOGY"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2293-2297, ISSN: 2582-5208, June 2024.

- **Chandrima Banerjee, Aritra Sarkar, Saikat Dutta, Soma Boral, Nabaneeta Banerjee, "A NEXT-GEN SENSOR-ENABLED INCUBATION SYSTEM"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2271-2276, ISSN: 2582-5208, June 2024.

- **Bishal Sarkar, Balaka Sarkar, Priyanka Daw, Subhrajit Chowdhury, Anurup Nag, Aneek Nath, Nabaneeta Banerjee, "GRAPHENE-ENHANCED LITHIUM-ION BATTERIES: COMPARATIVE ANALYSIS"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2281-2292, ISSN: 2582-5208, June 2024.

- **Abir Mitra, Anwesha Debnath, Ananya Jana, Ankush Biswas, Anwesha Mukherjee, Arkaprova Das, Poulami Roy, Nabaneeta Banerjee, "Remote Area Medicine Delivery System Using Drone"** published in International Research Journal of Modernization in

Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2228-2234, ISSN: 2582-5208, June 2024.

- **Nisha Munda, Soumi Dhali, Purnima Kumari Shaw, Shreya Dutta, Tanaya Kundu, Nabaneeta Banerjee, "GESTURE CONTROLLED BLUETOOTH SPEAKER USING ARDUINO"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2298-2304, ISSN: 2582-5208, June 2024.

- **Chandrima Banerjee, Tushar Patra, Debasish Saha, Abir Mitra, Anwesha Debnath, Nabaneeta Banerjee, Surajit Basak "Next Generation Patient Care With IoT Based Monitoring"** published in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), VOLUME 6, ISSUE 6, pp: 2324-2330, ISSN: 2582-5208, June 2024.

- **Chandrima Banerjee, Aritra Sarkar, Nabaneeta Banerjee, "GPS Based Identification System using Microcontroller"** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), VOLUME 11, ISSUE 8, pp: 1227-1230, ISSN: : 2321-9653, June 2024.

- **Abir Mitra, Nabaneeta Banerjee, Chandrima Banerjee, Chandril Ghosh, Biswambhar Saha, "Autonomous Drone-Based Medical Supply Delivery for Remote Regions"** published in Journal For Basic Sciences (JBS), VOLUME 24, ISSUE 6, ISSN: 1006-8341, June 2024.

- **Chandril Ghosh, Nabaneeta Banerjee, Abir Mitra, Arkaprova Das, Chandrima Banerjee, Tushar Patra, Maitrabha Roy, "Cutting-Edge Medical Robotics: Transforming Modern Healthcare"** published in Journal For Basic Sciences (JBS), VOLUME 24, ISSUE 6, ISSN: 1006-8341, June 2024.

- **Aritra Das, Koushik Pal, Snehasish Bera, Saynee Paul, Suniket Pradhan, Home Automation System using Multifunctional Bluetooth Configurations and Sensors** in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)-Volume 4,Issue 1, January 2024, ISSN:2581-9429

- **Sunit Jana, Rakhi Biswas and Koushik Pal. Image Processing used as a Powerful Tools** in Recent Biomedical Security in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)-Volume 4, Issue 1, January 2024, ISSN:2581-9429

- **Rakhi Biswas, Sunit Jana, Koushik Pal, Palasri Dhar, Antara Ghosal. Vision and Research Directions of 6G Technologies and Applications** in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)-Volume 4, Issue 2, February 2024, ISSN:2581-9429

- **Rakhi Biswas, Sunit Jana, Ahana Sen, Sukanta Dutta, Mrinmoy Pal, Kaushik Pal. Advances in Imaging Technology and DataAnalytics** in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)-Volume 4, Issue 4, June 2024, ISSN:2581-9429

- **Sunit Jana, Rakhi Biswas, Tanmoy Das, Koushik Pal, Avali Banerjee(Ghosh), Anurima Majumdar, Exploring Image Processing with Python** in International Research Journal of Engineering and Technology (IRJET) Volume: 11 Issue: 02 | Feb 2024, ISSN:2395-0056

- **Sunit Jana, Rakhi Biswas, Chandrima Banerjee, Tushar Patra, Mrinmoy Pal, Koushik Pal. Leveraging Artificial Intelligence for Enhancing Cybersecurity: A Comprehensive Review and Analysis** in International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)-Volume 4, Issue 4, June 2024, ISSN:2581-9429

- **Sunit Jana, Rakhi Biswas, Koushik Pal, Suparna Biswas , Kaushik Roy, The Evolution and Impact of Large Language Model Systems: A Comprehensive Analysis** in ALOCHANA JOURNAL (ISSN NO:2231-6329) VOLUME 13 ISSUE 3 2024

- **Sunit Jana, Rakhi Biswas, Mrinmoy Pal, Kaushik Pal, Antara Ghosal, Anurima Majumdar, The Critical Role of Satellite Navigation Systems in Modern Defense Strategies** in ALOCHANA JOURNAL (ISSN NO:2231-6329) VOLUME 13 ISSUE 4 2024

- **Koushik Pal, Priyanka Daw, Pritidipa Chakraborty, Priyansu Dey, Pritam Pal. Turbidity Monitoring In Dental Unit Waterline** in SIRJANA JOURNAL[ISSN:2455-1058] VOLUME 54 ISSUE 3

- **Rakhi Biswas,Sunit Jana,Koushik Pal. Leveraging Python for Artificial Intelligence: A Comprehensive Exploration** in SIRJANA JOURNAL[ISSN:2455-1058] VOLUME 54 ISSUE 2. Feb 2024

- **Ayush Sinha, Arpita Saha Biswas, Soumyadeep Mandal,Suparna Biswas, Koushik Pal, Anurima Majumdar, DOCUMENT SEGMENTATION METHODS: A COMPREHENSIVE REVIEW i**n SIRJANA JOURNAL[ISSN:2455-1058] VOLUME 54 ISSUE 3, March 2024

- **Aditya Routh, Rupayan Dirghangi, Subhomoy Das, Avali Banerjee, Koushik Pal, Palasri Dhar, "Invoice Management System",** SIRJANA JOURNAL, ISSN:2455-1058, Volume 54, Issue 3, March 2024, Page: 110-118, ISSN: 2455-1058. Impact Factor: 4.5.
- **Sahil Kumar Shaw, Sandipta Paul, Bikramjit Roy Mitra, Palasri Dhar, Koushik Pal, Avali Banerjee, "Design of Low-Cost Seabin for Efficient Marine Debris Collection",** SIRJANA JOURNAL, Volume 54, Issue 3, March 2024, Page: 83-86, ISSN: 2455-1058. Impact Factor: 4.5.
- **Zainab Ali, Sagnika Mukhopadhyay, Shuvhojit Deb, Palasri Dhar, Avali Banerjee, Koushik Pal, "Automatic Room Temperature Controller System",** ALOCHANA JOURNAL Volume 54, Issue 3, March 2024, Page: 78-82, ISSN: 2455-1058. Impact Factor: 4.5.
- **Sunit Jana, Rakhi Biswas, Souvik Jana, Koushik Pal, Palasri Dhar, Avali Banerjee (Ghosh), "Utilizing Machine Learning as a potent instrument in the biomedical care and health informatics fields"**, SIRJANA JOURNAL, Volume 54, Issue 2, March 2024, Page: 110-118, ISSN: 2455-1058. Impact Factor: 4.5.
- **Swapnadip Barman Avali Banerjee, Suparna Biswas, Antara Ghosal, Anurima Majumdar, "Innovative Ana - Digi Multifarious Mobile Supported Platform for New Edge Industries",** International Journal for Scientific Research & Development (IJSRD), Vol. 11, Issue 4, 2023, Page: 167-169, ISSN (online): 2321-0613. Impact Factor: 4.396. (Google Scholar)
- **Anisha Roy, Suranjan Nandi, Ayush Sinha, Rupkatha Chatterjee, Aditya Roy and Surajit Basak, "Megatron: The Delivery Robot",** International Journal of Innovative Science and Research Technology, Volume 8, Issue 9, September – 2023, ISSN No:-2456-2165.
- **Souman Bej, Sourav Paul, Surajit Basak and Soma Boral, " A Review On Core Infrastructures For Establishment Of A Smart City",** International Journal of Creative Research Thoughts (IJCRT), Volume 12, Issue 9, February 2024, ISSN No:-2320-2882.
- **Bishal Sarkar, Balaka Sarkar, Arpita Bhattacharjee, Banisha Adhikary, Biswambhar Saha, Surajit Basak and Kaushik Roy, " An Advanced Research on Enhancing Sorting and Searching Algorithms: A Comprehensive Study",** SIRJANA JOURNAL, VOLUME 54 ISSUE 3, March 2024, ISSN:2455-1058
- **Chandrima Banerjee, Aritra Sarkar, Saikat Dutta,Soma Boral and Surajit Basak, "SENSOR BASED SMART INCUBATOR",** International Journal of Research and Analytical Reviews (IJRAR), Vol. 11, Issue 1, Mar. 2024. ISSN: 2348-1269

- **Debjyoti Basak, Trinika Das, Rishavi Sarkar, Abhirup Bhowmick, Debarghya Mondal, Kaushik Roy, Surajit Basak and Koushik Pal , "Development of a Solar-Powered Power Bank",** ALOCHANA JOURNAL (ISSN NO:2231-6329) VOLUME 13 ISSUE 3 2024, April 2024.

- **Soumyadeep Ghosh, Anisha Roy, Chirag Lal, Mantsiz Zinath, Antara Ghosal, Anurima majumdar, Sunipa Roy, "Smart-Doc: AI based Medical Assistance System",** SIRJANA JOURNAL[ISSN:2455-1058] VOLUME 54 ISSUE 3, March 2024.

- **Aritra Mondal , Sunipa Roy , Anurima Majumdar, Antara Ghosal , Paramita Chowdhury , Raj Basu, Anirban Shit,Arijit Bhukta, "Power and Memory Optimization in Low Power VLSI Design- A NewTechnique"** SIRJANA JOURNAL [ISSN:2455-1058] VOLUME 54 ISSUE 3, March 2024.

- **Roy, Mallika & Paul, Jishnu & Sengupta, Josita & Bhattacharya, Swagata. (2024). Comparison Study and Analysis of Implementing Activation Function of Machine Learning in MATLAB and FPGA.** International Journal of Innovative Science and Research Technology (IJISRT). 961-970. 10.38124/ijisrt/IJISRT24JUN1109.

- **Jishnu Nath Paul, Mallika Roy, Josita Sengupt3, Karan Kumar, Swagata Bhattacharya"Electronic Component Classification Using Machine Learning"**International Research Journal of Engineering and Technology (IRJET) Volume: 11 Issue: 02 | Feb 2024

- **Aneek Nath, Ankush Biswas, Swagata Bhattacharya "SIMULATION OF ACTIVATION FUNCTION FOR MACHINE LEARNING APPLICATION IN MATLAB"**International Research Journal of Modernization in Engineering Technology and Science,Volume:06/ Issue:06/June-2024.

- **Suparna Biswas, Achyut Pal , Ananya Majumder , Antara Ghosal, Palasri Dhar, Sayan Roy Chaudhuri, An Efficient Fake News Detection using MachineLearning**, International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), ISSN: 2581-9429, Volume 4, Issue 1, January 2024.

- **Suparna Biswas,Ayush Sinha , Arpita Saha Biswas , Soumyadeep Mandal , Koushik Pal, Anurima Majumdar DOCUMENT SEGMENTATION METHODS: A COMPREHENSIVE REVIEW**, SIRJANA JOURNAL[ISSN:2455-1058] VOLUME 54 ISSUE 3, March 2024

National Conferences

- **Anirban Das, Arijit Sengupta, Debanjan Das, Nishan Dutta, Rahul Das, Kaushik Roy, "Heartbeat and Temperature Measurement Using Arduino Uno: A Low-Cost Monitoring Solution",** Two Days National Conference on Machine Learning in Healthcare Applications (MLHA 2024) , organized by Department of Electronics & Communication Engineering, Guru Nanak Institute of Technology, 18-19, April 2024

- **Ayan Sarkar,Palasri Dhar, Sunipa Roy "Study of Device Characteristics for an Analytical Al0.25Ga0.75As/GaAs superlattice MOSFET for biosensing application"** Machine Learning In Healthcare Applications (MLHA-2024)

- **Shaunak Das,Sagnik Banerjee,Anurima Majumdar,Antara Ghosal,Palasri Dhar, Sunipa Roy "Study of Graphene field effect transistor (GFET) for chemical Sensing Application"** Machine Learning In Healthcare Applications (MLHA-2024)

- **Koustab Maity, Avali Banerjee, Surajit Basak, Debasis Banerjee, "A Post COVID IoT Designed for Domestic and Industrial Syndrome",** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Arijit Chakraborty, Chandrima Banerjee, Avali Banerjee, Suparna Biswas, Koushik Pal, "Smart Solar Charging Station for EV Vehicle",** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Abir Mitra, Ananya Jana, Ankush Biswas, Anwesha Debnath, Anwesha Mukherjee, Arkaprova Das, Poulami Roy and Nabaneeta Banerjee, "Drone For Serving Medicines At Remote Areas",** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Bishal Sarkar, Balaka Sarkar, Priyanka Daw, Subhrajit Chowdhury, Anurup Nag, Aneek Nath and Nabaneeta Banerjee, "Graphene-Based Battery: A Comparative Study with Lithium-Ion Battery and Potential Advancements",** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Chandrima Banerjee, Tushar Patra, Debasish Saha, Abir Mitra, Anwesha Debnath, Nabaneeta Banerjee, Surajit Basak and Nabaneeta Banerjee, "IoT Based Patient**

Health Monitoring System", Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Biswambhar Saha, Chandril Ghosh, Maitrabha Roy, Ezaz Rahaman, Mangal Dip Nag, Nabaneeta Banerjee and Nabaneeta Banerjee, "ROBOTICS IN HEALTH-CARE",** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Chandrima Banerjee, Tushar Patra, Debasish Saha, Abir Mitra, Anwesha Debnath, Surajit Basak and Nabaneeta Banerjee, "IoT Based Patient Health Monitoring System"**, Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Sunit Jana, Rakhi Biswas and Koushik Pal, Harnessing Natural Language Processing (NLP)in Modern and Advanced Healthcare System:Enhancing Patient Care and Clinical Efficiency,** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Sunit Jana, Souvik Jana, Rakhi Biswas and Koushik Pal, Robotics in Healthcare: Revolutionizing Patient Careand Medical Practices**, Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Chandrima Banerjee, Arijit Chakraborty, Avali Banerjee, Antara Ghosal, Soma Boral, Sisir Kumar Das, Annapurna Das, "Ground Bounce in High Speed and High Frequency Printed Circuit Board",** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Rupkatha Goswami, Souvik Maiti and Surajit Basak, "Biomedical Signal Processing",** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Bishal Sarkar, Balaka Sarkar and Surajit Basak, "6G-Enabled IOT: Unleashing the Full PotentialofConnected Devices"**, Science & Engineering Research Board (SERB)

Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Suparna Biswas, Sayan Roy Chaudhuri, Arkadeep Mukherjee, Sujay Chowdhury, Avinaba Banerjee,Cardiovascular Risk Assessment Through EcgSignal Classification,** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Suparna Biswas, Megha Ghosh, Nileswar Nandi, Maitrabha Roy, Niloy Chaterjee, Dr.Avali Banerjee, Dr. Anurima Majumdar, Optimizing Signal Processing: Analysis of High Pass Filters in Electronic Systems,** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

- **Suparna Biswas, Abir Mitra, Aditi Ray, Aman Kumar, Ananya Jana, Shubhadeep Biswas, ENHANCING FIRE SAFETY: THE EVOLUTION AND IMPACT OF FIRE FIGHTING ROBOT,** Science & Engineering Research Board (SERB) Sponsored National Conference on Machine Learning in Healthcare Applications (MLHA-2024) at GNIT Kolkata, 18th – 19th April 2024.

DEPARTMENT: FT:

International Journal

- **Kakali Bandyopadhyay, Elina Sur, Indranil Das, Junaid Ahmed Ansari, Neha Basfore and Poulami Deb, A Review on Pea Peel used as a Biodegradable Food Waste,"** International Journal for Modern Trends in Science and Technology, volume 9, issue 5, ISSN: 2455-3778, page-579-584, Impact Factor:4.175, 2023, https://doi.org/10.46501/IJMTST0905099, UGC Approved Journal (UGC Journal Id : 43137)

- **Souptik Bhattacharya, Shaoli Das, Sanjukta Banik**, **"Fabrication and physicochemical investigation of pH-responsive alginate/pectin hybrid network hydrogel for improved stability and controlled release of diallyl thiosulfinate"** Materials Today Communications, Elsevier, vol.38, page- 108235, IF-3.8, 2024.

- **Santanu Dutta, Kakali Bandyopadhyay , "Preparation And Characterization of Biocolour Fortified Dairy Product",** International Journal of Research and Analytical Reviews (IJRAR), 11(2) 766-774, 2024, Impact Factor-7.17, E-ISSN 2348-1269, P- ISSN 2349-5138, UGC Approved Journal No: 43602(19), https://www.ijrar.org/papers/IJRAR24B1881.pdf., Apr 2, 2024

- Dr. Kakali Bandyopadhyay**, Sagnik Saha, Sutapa Das, Biswajit Mallick, Jiku Chowdhury, "Fortified Dairy Products with enhanced nutritional characteristics**", International Journal of Scientific Development and Research (IJSDR), 9(4) 1313-1321, April 2024, impact factor-8.15, ISSN: 2455-2631, https://www.ijsdr.org/papers/IJSDR2404192.pdf

- **Mondal Soumya, Paul Arkoprovo, Ghosh, Arka,** Ganguly Shairee, Sikdar Dolanchapa. **(April 2024)."Exploring Nutritious Health Drink A Comprehensive Review."** published in Journal of Emerging Technologies and Innovative Research(JETIR) 11. 317-325 .https://www.jetir.org/papers/JETIR2404D39.pdf

- Souptik Bhattacharya**, Sayamdipta Das Chowdhury, Sayani Debnath, Soumik Saha,** Saikat Mazumder, and Amit Barman. **"Formulation of pH-responsive double-network hydrocolloid-based hydrogel matrix for encapsulation of bioactive polyphenols obtained from fruit juice industry byproducts."** Process Biochemistry, Elsevier, 145, (June 2024): 74-88. https://doi.org/10.1016/j.procbio.2024.06.023.(Accepted)

International Conferences

- Riya Dasgupta, Kakali Bandypadhyay and **Aihik Dasgupta "Extraction and Characterization of Lipids Extracted from Different Species of Mushroom: Reforming Nutrition for Optimal Health"** Proceedings of International Conference On "Sustainable Innovation in Food Safety, Health & Nutrition" SInFoCoN-23. Kolkata, December 22-23, 2023

- Shairee Ganguly, Kakali Bandhyopadhyay**, Srishti Mandal. Joyita Khan, Purnasha Paul, "Un-manned agricultural parameter inspection mechanism and plant growth-dependent varied irrigation system for advanced crop cultivation,"** AIP Conference Proceedings, September, 2023, Scoupus Indexed, https://doi.org/10.1063/5.0166534

- **Saikat Mazumder, Suditi Jana, Arunava Singha, Chitrini Das, Navin Kumar "Tech-Driven Entrepreneurship: Catalyst for Societal Transformation and Sustainability"** International conference on "Contemporary Issues and Challenges in Management and Technology", 22th-23th November 2023, Kolkata.

National Conferences

- **Shaoli Das, Sanjukta Banik, Souptik Bhattacharya**, **"Integration of Polyphenolic Riches From Orange and Mosambi Peel into A Refined Jelly Confection",** National Symposium on Sustainable Technology and Management for Humanistic Growth at Jadavpur University, 22 - 23 December 2023.

- **Poulami Deb, Elina Sur, Indranil Das, Dr. Kakali Bandyopadhyay**, "Preparation of millet based fortified soup powder". 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Dr. Kakali Bandyopadhyay,Ahana Ghosh & Surojit Mukherjee "Garlic as a Promising Source of Bioactive Compounds: A Review"** , 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Arkaprava Bhowmik, Pulastaya Dey, Shamim Hussain, Jayshree Majumdar, "Development of instant millet based khichdi"** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Ankush Chatterjee, Suronjona Banerjee, Debojyoti Mukherjee, Srabasti Deb, Dolanchapa Sikdar "Millet Based Nutritious Bar: A Step Towards Sustainable Development."** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Ankita Mondal, Rajdeep Ghosh, Dolanchapa Sikdar, "Exploring Hygrophila auriculata: Medicinal Plant Review."** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Tiyasa Gupta, Sagnik Chakraborty, Aditi Kar, Souptik Bhattacharya," Edible Hydrogel: A Modern Drug Carrier System in Bioactive Phytochemical Delivery."**, 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Shaoli Das, Sanjukta Banik, Sanjana Baidya, Anushree Pahari, Sreelekha Banik, Souptik Bhattacharya, "Encapsulation of Bioactive Compounds of Citrus sinensis, Citrus limetta and Emblica officinalis in Edible hydrogel: A Health Promotion Approach Through Waste Valorization",** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Reshmi Rajeevan, Riona Saha, Riddhick Mukhopadhyay, Taniska Barai, Shairee Ganguly, "Fortification of whipped cream powder by incorporating orange peel powder"**, 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Soumya Mondal, Arkoprovo Paul, Arka Ghosh, Shairee Ganguly, "An overview of natural food colors: Origin, chemical properties, and applications"** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

DEPARTMENT: IT

International Journal

- **Subhanwita Ghosh, Pratyusha Baral, Sneha Ghosh,Trishita Ghosh, Sudeep Ghosh, Chowdhury Md. Mizan "Survey on Congestion Control Mechanisms for Improving Communication Effectiveness and Service Quality in VANET".** Journal of TechnischeSicherheit(Technical Security). October 2023. Scopus and UGC Care indexed,. IF:6.1

- **Sougata Roy, Anurati Kar, Moumita Basak, "Deep neural net based approach for air pressure prediction."** AIP Publications. Scopus Index. September 2023.

- **Cheryl Mukherjee, "Stock Market Trend Prediction Using LSTM Model For Future Prediction"** Gradiva Review-Journal, Volume 9 Issue 5, July 2023. Scopus Index.

- **Saransh Sinha "Automatic Number Plate Recognitionby Employing Deep Learning Methods"** GradivaReview-Journal, Volume 9 Issue 5, July 2023. Scopus Index.

- Priyanjana Mitra, Chowdhury Md. Mizan, **Teerath Kundu, Biswajit Mondal, Shubhashree Dhar "A study on Footstep Power Generation using Piezoelectric Tile"** Journal of Gradiva Review Journal volume 10 issue 5, May 2024., ISSN NO : 0363-8057 .(Scopus Index).

- Trishita Ghosh, Suparna Karmakar, **Bishu Jaiswal, Jitendra Yadav, Rohit Shaw "PlateSnap: Python and Open-CV Advancing License Plate Recognition".** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- Tridib Chakraborty, **Mayukh Nandan, Suvadeep Giri, Tanmoy Ghosh , Sagar Kumar Ghosh "FINGERPRINT AND FACE RECOGNITION USING IMAGE PROCESSING"** Mukt Shabd Journal Volume XIII, Issue IV, APRIL/2024, ISSN NO : 2347-3150. (UGC Care-I).

- Chowdhury Md. Mizan, **Sanjib Ghosh, Sayan Das, Mousumi Ghosh "Facial Recognition: Detection of Face with accessories"** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- **B. Das, A. Dutta,** Trishita Ghosh, Suparna Karmakar **"Generative Artificial Intelligence in Healthcare: Advantages, Challenges and Ethical Considerations "** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- **Debasmita Saha, Saptadipa Mazumder, Shashinath Jha, Harshit Choudhary, Himanashu Gupta "Deciphering Deception: Advancing DeepFake Detection through Advanced Machine Learning and Fusion Strategies"** Heritage Research Journal Volume 72, Issue 4, April, 2024, ISSN No: 0474-9030. .(Scopus Index).

- Suparna Karmakar, Trishita Ghosh**, Souvik Sarkar, Suchandra Bhattacharya, Bijaya Singha "An Efficient LSTM Based Model for Rainfall Prediction"** Journal For Basic Sciences. June 2024. IF:65.7,ISSN: 1006-8341 Volume 24, Issue 6, 2024 Page no 393-406 Scopus Indexed.

- Sudeep Ghosh, Tridib Chakraborty, Trishita Ghosh**, Shreyasi Ghosh, Niladri Mondal "Blood Pressure Monitoring System Using Different Machine Learning Algorithms"** Journal of Technology Volume 12 Issue 6, June 2024, ISSN: 10123407. IF-5.1 (Scopus Indexed)

- Tridib Chakraborty, Sudeep Ghosh, **Raunak Seal "Intelligent Tutoring System to Reduce the Dropout Rate in E-Learning System"** Journal of Technology Volume 12 Issue 6, June 2024, ISSN: 10123407,IF-5.1(Scopus Indexed).

- Suparna Karmakar , Suparna Biswas, Trishita Ghosh**, Nikhil Kumar Rai, Vishal Shaw, Prince Singh "OCR Based Approach for Auto-Detection and Recognition of Vehicle Number Plate "** Heritage Research Journal Volume 72, Issue 4, March, 2024, ISSN No: 0474-9030. .(Scopus Index).

DEPARTMENT: EE

International Journal

- **Barnali Kundu, Subhamoy Dey, Souvik Pal, Aniruddha Sengupta, Manoshi Biswas, "Automated Transmission Line Fault Detection using Distance Locator",** American Journal of Advanced Computing, American Journal of Advanced Computing, Volume 2, Issue 1, pp. 1-5. (ISSN NO:2368-1209), April 2023.

- **Barnali Kundu, Dwaipayan Mazumdar, Debmalya Das, Sujoy Ghati, Arnab Dutta, "Design of Two stage Isolated Bidirectional Converter for Plug-in Electric Vehicles",** YMER, July, 2023 (ISSN NO: 0044-0477).

- **Sumangal Bhaumik, Aveek Chattopadhyaya, Titas Bhaumik, Suman Ghosh, Shyamal Roy, Amit Debnath, Pinaki Biswas, "Transient Behavior Analysis of Induction Motor in Grid Connected PV Microgrid Using ETAP and MATLAB",** Journal For Basic Sciences, Volume 23, Issue 12, pp. 251-259, December 2023, Impact Factor: 6.1, ISSN NO : 1006-8341. (Scopus Indexed). DOI:10.37896/JBSV23.12/2763.

- **Sumedha Bhattacharya, "Machine Learning Based ECG Signal Classification",** Journal For Basic Sciences, Volume 24, Issue 1, pp. 367-2377, 22.01.2024, ISSN NO : 1006-8341.

- **Arpan Das "Development of a Photovoltaic-Powered Electrolyzer for Sustainable Green Hydrogen Production",** Technical Security Journal, Vol.24 , issue.4, April, 2024 (ISSN:2191-0073)

- **Mainak Das, Vishal Roy, Arpan Kumar, Akash Das, "Cost Effective Solar Powered Wireless Mobile Charger"**, Journal of Basic Science, Vol.24 , issue.5, June, 2024 (ISSN NO: 1006-8341)

- **Arpan Das, "A Review Of Fault Diagnosis In Ac Micro-Grids By Machine Learning",** YMER (Publisher: University of Stockholm) Volume 23, Issue 6, (June) - 2024, p.p. 1215-1230, (SCOPUS indexed), UGC Care -II, ISSN : 0044-0477.

National Conference

- **Arpan Das, Ankur vaibhav, Nivedita Saha, "Design and Development of an IOT Governed Smart Battery Management System",** 14th Academic Meet Forum of Scientists, Engineers & Technologists (FOSET), held at JIS College of Engineering (JISCE), West Bengal on 12th May, 2024.

- **Arpan Das, Eshita Das, Payel Chakraborty, Aritra Chowdhury, "A Data-Driven Approach for Accurate Solar Power Forecasting",** SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, April, 2024.

- **Ramanuj Bhowmick, Soumyajit Pradhan, Ratnadwip Dhali, "Smart Energy Meter Utilizing Internet of Things (IOT) Technology"**, SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, April, 2024.

- **Debarghya Roy, Akash Bhowmick, Arghyadeep Ghosh, Kumari Guria Rani,"Third Eye for Blind Person**", IEI Conclave Of Student's Chapter 2024, JIS College of Engineering, 2024, 05.04.2024 (Selected as Session Best Paper).

- **Chandrima Ghosh, Soumyajit Dasgupta, Souptik Chakraborty, "Smart Weight Monitoring System"**, SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, pp. 114 -121, 19.04.2024.

- **Vinayak Raj Gupta, Srikant Khator, "Wavelet Transform Based Statistical Analysis of ECG Signal for Diagnosis of Sleep Apnea",** SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), GNIT, Kolkata, pp. 191 -196, 19.04.2024.

- **Sahil Mondal, Tushar Ghosh, Prasun Das, "Three Phase Transmission Line Fault Detection System**", Third regional conclave of Students' Chapter (Eastern region) IEI, at JISCE, 5th April 2024.

DEPARTMENT: ECS

National Conference

- Suparna Maity, Bapita Roy, Adhish Kumar Chakrabarty**,Ravi Kumar, Krishanu Pal."A Comprehensive Review on Application of Machine Learning in Healthcare",** SERB Sponsored Two Days National Conference on Machine Learning In Healthcare Applications MLHA-2024 organised by Electronics and Communication Engineering department of Guru Nanak Institute of Technology , 18-19 April 2024.

- Bapita Roy, Suparna Maity, Adhish Kumar Chakrabarty, **Saikat Majumder, Ravi Kumar, Shayak Chakraborty.“Developing an IoT- Powered Health Monitoring System for Enhanced Wellness”,** SERB Sponsored Two Days National Conference on Machine Learning In Healthcare Applications MLHA-2024 organised by Electronics and Communication Engineering department of Guru Nanak Institute of Technology , 18-19 April 2024.

International Conference

- Bapita Roy, **Saikat Majumder, Ravi Kumar, Shayak Chakraborty. “ IoT based Structural Health Monitoring using Machine Learning Approach”,** 8th International conference on emerging applications of information technology (EAIT 2024), Springer, organized by Computer Society of India, Kolkata Chapter in association with St. Xavier’s College , Kolkata, and, Electronics and Communication Department, Techno Main Saltlake, and, IETE, and, IEEE Communication Society, Kolkata Chapter, 13th January 2024

DEPARTMENT: ASHU

International Journal

- Soma Mukherjee **Biswajit Mandal,** Debanjan Datta and **Susinjan Bhattacharya**, “**Control and Management of Road Accidents by a New Smart Device”** in International Advanced Research Journal in Science, Engineering and Technology Vol. 10, Special Issue 3, September 2023, ISSN (Print) 2394-1588

- **Sumit Biswas, Partha Pratim Mandal, Susinjan Bhattacharya** and Soma Mukherjee, **“Overcoming Antibiotic Resistance” in** Int.J.Curr.Microbiol., App.Sci (2023) *12*(10): 153-165, ISSN: 2319-7706 (UGC CARE)

- Soma Mukherjee**, Susinjan Bhattacharya, Diprit Turul, Pramila Das, and Aritra Chakraborty “Management Of E-waste - A Potential Threat To The Environment”** in Journal of Emerging Technologies and Innovative Research (JETIR), December 2023, Volume 10, Issue 12, ISSN-2349-5162, **(**UGC CARE and Scopus Indexed)

National Conference

- Soma Mukherjee, **Susinjan Bhattacharya, “Piezoelectric materials as a source of green energy”** in 14th Inter University Engineering, Science & Technology Academic meet

2024 & Innovative model competition for a sustainable society organized by FOSET 2024, at JISCE on 12.05.2024

- Sucharita Bhattacharyya, **Aratrika Ghosh, Tanmoy Sarkar, Suchana Chanda " Renewable Energy from Non-Conventional Sources: The Possibilities & Esmitations" in FOSET ACADEMIC MEET 2024, organized in JISCE on 12th May, 2024**

Book Chapter

- **Pratim Chatterjee ,** José Vargas-Hernández, and Namrata Chakrabortty**, "Role of Digitization in the Luxury Hospitality Industry: A Bibliometric and Content Analysis"** published in *Technology and Luxury Hospitality AI, Blockchain and the Metaverse, I*SBN 9781032785066, published June, 2024 by Routledge (Scopus Indexed)
- **Dr Indrajit Bose. "Secret Sharing and Unshareable Secrets: Subversive Women in Conrad's Early Fiction",***Voices Unveiled: Women in Literary Landscape.* New Delhi: Authors's Press, 2024. ISBN: 978-93-6095-340-9[April 2024]
- Soma Mukherjee**, Susinjan Bhattacharya, Indrani Sarkar, Diprit Turul, and Riddhi Lahiri, "Potential future of silicon recycling from end-of-life Solar cells"** published in *Recent Societal Development and Sustainability,* ISBN: 978-81-971906-7-4, Ideal International E-publication, Indore, India , published June 2024
- **Indrani Sarkar,** Soma Mukherjee**, Gargi Bose, Akash Mondal, "Use of AI in Air Pollution Research: An analysis"** published in *Recent Societal Development and Sustainability*, ISBN: 978-81-971906-7-4, Ideal International E-publication, Indore, India , published June 2024
- Soumi Patra, Dipanjan Bhattacharjee**, Srijita Roy Chowdhury, and Shreenath Das, "A review on Solid Waste to Electrical Energy production for Sustainable future of India"** published in Recent Societal Development and Sustainability, ISBN: 978-81-971906-7-4, Ideal International E-publication, Indore, India , published June 2024

DEPARTMENT: CA

International Journal

- Ananjan Maiti, **Ariijit Roy,** Chiranjib Dutta, Dola Saha, **"Artificial Intelligence in Smoking Residue Detection: Bridging the Gap Between Medical Diagnostics and Predictive Analysis,"** published in American Journal of Advanced Computing, Volume 2, Number 1, pp. 6-18, August 2023. DOI: https://doi.org/10.15864/ajac.21013.

- Ananjan Maiti, **Arghay Podder**, Chiranjib Dutta, Dola Saha, **"Improved RNN-based System for Deciphering Doctors' Handwritten Prescriptions,"** published in American Journal of Advanced Computing , Volume 2, Number 2 , December 2023 . DOI: https://doi.org/10.15864/ajac.22012.

National Conferences

- **Karnapali Mukhopadhyay, Nanda Kishor Jana, Ananjan Maiti, Chiranjib Dutta, "Enhancing Mental Health Diagnostics: The Role of Machine Learning Algorithms"** In SERB Sponsored National Conference on Machine Learning In Healthcare Applications (MLHA-2024), organized by Department of Electronics & Communication Engineering, Guru Nanak Institute of Technology, ISBN.:978-93-340-3095-2, 18-19, April 2024.

2022-23

DEPARTMENT: CSE:

National Conference

- **Abir Ganguly,"Identify Human Actions using 3-Dimensional Convolutional Layer-A Deep Learning Method"** published in FOSET(Forum of Scientists, Engineers & Technologists),National Conference held on 10th-11thSeptmeber, 2022.

International Conference

- **Ayushman Hait, Bappaditya Roy, Arup Bhattacharjee, Dibyendu Kumar Das, Ainik Sarkar, "A Technique towards Disease Prediction: An Approach of Machine Learning"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press)

- **Paramita Saha ,"Caption an Object using the pre-trained Deep Learning Model for Single Shot Multi-Box Detector"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Hrittika Maity "Recognizing Chemical Structures Drawn by Hand using Deep Learning Algorithms and Predict Probable Chemical Structure"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Mriganavi Dutta,"Depression Inducing Emotion Detector in Online Social Networks"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Debasish Dhar, "Customer Behaviour Forecasting using Predictive Analysis of Sales Data"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Shrutarba Banerjee, Nupur Dey,"A Comparative Analysis of Financial Fraud Detection in Credit Card by Decision Tree and Random Forest Techniques"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

- **Snehashis Chakraborty, Subhajit Pati, Subarna Guin, "An Intelligent Model for Predicting Human Diseases by Using Machine Learning Techniques"** accepted in International Conference on Innovations in Software Architecture and Computational Systems- ISACS 2022 on 21-22nd July,2022 (AIP Proceedings, Article in press).

International Journal

- **Saptadeepa Mitra, Shaswata Pyne, Rupnath Shaw, Supriyo Maity, "IoT Based Water Distribution and Fertilizer Sprinkling System in an Agricultural field"** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 10 Issue-VII,July 2022

- **Zenitha Bera, Diya Roy, Aditi Dana, Bidisha Goswami, Jayita Pramanik, Srabani Biswas, Ipsita Saha, and Sourish Mitra,"A GUI Based Indian Sign Language Identification System using CNN**

Model" published in GRADIVA REVIEW JOURNAL, ISSN NO : 0363-8057, Impact Factor:6.1, (Scopus Indexed) VOLUME 9 ISSUE 4 ,pp-415-420, April 2023

- **Moubani Hari,Riyanka Gangopadhyay,Prince Sana, Priyabrata Sen, Srijani Hari, Kuntal Kumar Samanta,"IoT Based Student Gossip Detection and Electricity Misuse Prevention System in A Smart Library"** on Scopus indexed - Gradiva Reviewed (International),Volume 9, Issue 4,ISSN NO : 0363-8057 on May, 2023

- **Sunanda Chakraborty, Shibam Chakraborty, "Captioning Image Using Deep Learning: A Novel Approach",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Sristi Kundu, Sharanya Paul, Disha Dan, Bikram Kumar, Arti Kumari, Ausaf Masuf, "LBP Feature Extraction for Early Detection of Diabetic Eye Diseases",**published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Soumyajit Nandi, Soumyanil Dey, Soham Bhattacherjee¸ Shakir Ahmed, Aratrika Ghosh, "Credit Card Fraud Detection Using Random Forest Classification",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-VI,June 2023.

- **Arpan Sen, Aman Kumar Jaiswal, Atul Singh, Bidrohi Pradhan, Subhasis Dey, Aniket Mondal, "Captioning Image Using Deep Learning Approach",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue-V, May 2023.

DEPARTMENT: ECE:

National Conference

- **Safflaya Porel, Sukanya Roy, Eshika Roy, Suparna Biswas, Sayan Roy Chaudhuri , ECG based Heart Disease Detection Method, 12th Inter University Engineering, Science & Technology** Academic Meet - 2022; Innovative Model Competition for a Sustainable Society, 10th-11thSeptmeber, 2022
- **Smita Kundu, Sumana Saha, Sayan Roy Chaudhuri, Suparna Biswas, An Automated Wheel Chair: A Step Towards Innovation**, 12th Inter University Engineering, Science ; Technology Academic Meet - 2022 ; Innovative Model Competition for a Sustainable Society, 10th-11thSeptmeber,2022.
- **Snehasish Bera, Saynee Paul, Suniket Pradhan, Koushik Pal, Kaushik Roy, "Reviewing on Some Development on Holography Technology**", 12th Inter University Engineering, Science & Technology Academic Meet - 2022; Innovative Model Competition for a Sustainable Society(FOSET), 10th-11thSeptmeber, 2022
- **Soumyadeep Ghosh, Mantsiz Zinath and Surajit Basak, "Smart Parking System Using Internet of Things: A Step towards Building Smart Cities",** 12th Inter University Engineering, Science & Technology Academic Meet - 2022 ; Innovative Model Competition for a Sustainable Society (FOSET), 10th-11thSeptmeber, 2022.
- **Arijit Chakraborty, Dyuti Banerjee, Sulata Pandit and Surajit Basak, " Smart Technology Based Cultivation System",** 12th Inter University Engineering, Science & Technology Academic Meet -2022 & Innovative Model Competition for a Sustainable Society (FOSET), 10th-11thSeptmeber,2022.
- **KOUSHIK PAL, PALASRI DHAR,PRANAV KUMAR, CHIRAG LAL, NANDINIKUMARI SINGH,"An Advanced Indoor Navigation System using Li-Fi"FOSET,**2022,11th September
- **Abir Bachar,Abir Ganguly,Sayan Roy Chaudhuri,Moloy Dhar,Ipsita Saha," Identify Human Actions Using 3-Dimensional Convolution Layer- A Deep Learning Method",** FOSET,10th- 11thSeptmeber, 2022.
- **Sayan Roy, Atrajit Debnath, Smita Kundu, Nabaneeta Banerjee, "Need of Oximeter in pandemic situation",** 12th Academic meet Forum of Scientists, Engineers, Technologists (FOSET), 10-11September, 2022.
- **Pratyusha Bhattacharjee, Souvik Dey, Juhi Paul, Abhirup Bhowmik, Nabaneeta Banerjee, "A User Interface for Students to Register their Names for School Trip**", 12th Academic meet Forum of Scientists, Engineers & Technologists (FOSET), 10-11 September, 2022.
- **Sneha Dey, Rishavi Sarkar, Abhirup Bhowmick, Nabaneeta Banerjee, "Arduino Based Semi- Automatic Floor Cleaning Machine",** 12th Academic meet Forum of Scientists, Engineers; Technologists (FOSET), 10-11 September, 2022.
- **Soumyadeep Ghosh, Soma Boral, Arun Kumar Mondal, " Online Doctor Consulting System in Snart baby Cradle:A Step towards Innovation",** 12th Inter University Engineering, Science; Technology

Academic Meet - 2022 ; Innovative Model Competition for a Sustainable Society (FOSET), 10th-11thSeptmeber, 2022.

- **"Unmanned Rescue Ground Vehicle: A Surveillance To War Field", Soumyadeep Ghosh, Anisha Roy and Surajit Basak,** PRAYAS-2023, 28th April, 2023. [Awarded 2nd best paper]
- **Mayukh Mukherjee, Soumik Podder, Avishek Majumdar, Susmita Mondal, Smart Mirror with Artificial Intelligence, 13th Inter-University Engineering, Science; Technology Academic Meet – 2023, organized by Forum of Scientists, Engineers ;** Technologists (FOSET) in association with Maulana Abul Kalam Azad University of Technology - West Bengal, Techno India Group, Indian Society for Technical Education – West Bengal Section, Association of Engineers India and Sister Nivetita University, 23rd April 2023.
- **Simanchal Pattanayak, Sayantani Das, Sudipta Das, Nilay Saha, Soumik Podder, Design and Development of Automated Self Recoverable Drone,** 13th Inter-University Engineering, Science; Technology Academic Meet – 2023, organized by Forum of Scientists, Engineers; Technologists (FOSET) in association with Maulana Abul Kalam Azad University of Technology - West Bengal, Techno India Group, Indian Society for Technical Education – West Bengal Section, Association of Engineers India and Sister Nivedita University, 23rd April 2023
- **Rini Sarkar, Madhurima Chakraborty, Sakshi Roy, Ankita Singh, Soumik Podder, Challenges and New Dimensions of Jewellery Business in Digital Era, National eConference;** Contemporary Issues and Challenges in Management in Digital Era" (NCCICMDE 2023), organized by the Department of Management Studies, Asansol Engineering College, Asansol, West Bengal, India on 21st and 22nd June, 2023 in Online Mode

International Conference

- **Palasri Dhar, Soumik Podder, Sunipa Roy, Ayantika Goswami, Hritika Saha, Swagata Bhattacharya, " Junctionless FET in Label Free Biosensing- A State of the Art Review",** International Conference on Communication, Computing and Nano-Microwave Technology, July2022 (ISBN: 978-93-5593-089-7)
- **Safflaya Porel, Smita Kundu, Suparna Biswas, Sayan Roy Chaudhuri, "A Study of Machine Learning based Heart Disease Detection Method",** Proc. Of International conference Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Soumik Podder, Sunipa Roy, "Reactive Oxygen Species (ROS) Sensing- A Transistorized Approach"** 2022 IEEE International Conference of Electron Devices Society Kolkata Chapter(EDKCON), November 2022, Kolkata
- **Adrija Kundu, Kaushik Roy, "Advanced Smart Medicine Box using Arduino",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7

- **Saumyadeep Bhattacharyya1, Romik Halder, Antara Sarkar, Asmita Chakraborty, Ankita Roy, "ML Based Customer Review Management System"** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Susanta Das,Koushik Pal,Antara Ghosal,Anurima Majumdar,Palasri Dhar,Avali Banerjee "Webpage Development for Customer",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Subhagata Banerjee, Sudhanshu Kumar Singh, Subhankar Dutta, Sornali Hazra, Satish Singh, Sukanya Dhali and Surajit Basak, "Education Portal: An effective way to implement the digitalized process in Learning",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Piyal Bose, Arjyma Seal, Atrayee Gayen, Arko Saha, Aritra Ghosal, Bikram Paul and Surajit Basak, "A Deep Study on Silent Sound Technology",** International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7)
- **Sneha Dey, Abhirup Bhowmick, Rishavi Sarkar, Aritra Biswas, Nabaneeta Banerjee, "Arduino Based Semi-Automatic Floor Cleaning Machine**", International Conference on Communication, Computing and Nano-Microwave Technology, July 2022 (ISBN: 978-93-5593-089-7).
- **Sayani Sinha, Purbasa Basu, Sidhartha Das, Swapnadip Barman, Abhirup Bhowmick, Nabaneeta Banerjee, Automatic Fire Rescue System**, published in INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Volume 9 Issue 2 ,ISSN: 2349-6002.

International Journal

- **Suman Mallick, Tejpal Singh "IOT BASED SMART MIRROR USING RASPBERRY PI"**International Journal for Research in Applied Science & Engineering Technology (IJRASET),ISSN: 2321-9653, Volume 11, Issue 1, Jan-2023, DOI:10.22214/ijraset.2023.48583,Impact factor-7.538.
- **Subhajit Das, Sunam Saha "ARDUINO BASED SMART IRRIGATION SYSTEM",** International Research Journal of Modernization in Engineering Technology and Science(IRJMETS),ISSN:2582-5208,Volume05,,Issue1,Jan- 2023,DOI:10.56726/IRJMETS33090,Impact factor-6.752
- **Rajdeep Chatterjee , Oindrila Das , Ridam Kundu "Machine Learning Inspired Smart Agriculture System with Crop Prediction"**,International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653, Volume 11, Issue 1, Jan-2023, DOI:https://doi.org/10.22214/ijraset.2023.48841, Impact factor: 7.538

- **Rupayan Dirghangi, Arindam Roy, Aditya Routh, Subhomoy Das, Sujoy Dutta and Surajit Basak, "Solar Powered Smart Agriculture Systems Using WSN Via IoT",** International Research Journal of Engineering and Technology (IRJET), Volume: 10 Issue: 01, Jan 2023, Impact factor-7.529
- **Oindrilla Ghatak, Hritika Saha, "Review on Green Energy",** INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, July 2022 | IJIRT | Volume 9 Issue 2 | ISSN: 2349-6002
- **NodeMCU ESP8266 based Smart Car Parking System, Arjyama Seal, Debjit Bera, Pratyusha Bhattacharya, Aritra Ghosal, Arko Saha and Nabaneeta Banerjee**, International Journal Of Innovative Research In Technology (IJIRT), Volume 9 Issue 2, 2023 [ISSN: 2349-6002]
- **A Solar AquaPure, Smita Kundu, Nabaneeta Banerjee, Atrajit Debnath, Sayan Roy, Prem Kumar Mondal, Eshika Roy** International Journal for Research in Applied Science and Engineering Technology (IJRASET) 2023 [ISSN: 2321-9653]
- **Simanchal Pattanayak, Sayantani Das, Sudipta Das, Nilay Saha, Soumik Podder, Design And Development Of Automated Self Recoverable Drone**, American Journal of Advanced Computing(AJAC) (Accepted for publication
- **"Nanozymes Induced Air Purification- A State of the Art Review" Abhijeet Sarkar,Ashmita Saha, Bhaskar Bhattacharjee, Bishnupada Sahoo, Rounak Bakshi**, Recent Research Reviews Journal (rrrj),Volume 2, Issue 1, p. 11-26,June 2023.

Book chapter

- **Suparna Biswas. (November 2022). An Efficient Masked-Face Recognition Technique to Combat with COVID-19.** In Convergence of Deep Learning In Cyber-IoT Systems and Security (eds R. Chakraborty, A. Ghosh, J.K. Mandal and S. Balamurugan). https://doi.org/10.1002/9781119857686.ch8 (Scopus indexed)
- **Suparna Biswas, Sayan Roy Chaudhuri, (November 2022). Fuzzy Logic-Based Air Conditioner System.** In Convergence of Deep Learning In Cyber-IoT Systems and Security (eds R. Chakraborty, A. Ghosh, J.K. Mandal and S. Balamurugan). https://doi.org/10.1002/9781119857686.ch7 (Scopus indexed)
- **Palasri Dhar,Soumik Poddar,Sunipa Roy (January 2023).Ultra conductive Junctionless Field Effect Transistor based biosensor with negative capacitance-Advanced Nanoscale MOSFET Architectures**:Current Trends and Future Prespectives.(Apple Academic Press)(Accepted –Article in press)
- **Sunipa Roy, Milan Dhara, " Technological development of Graphene and Graphene nanocomposite based supercapacitor electrode**", Low dimensional nanoelectronic devices, ISBN: 9781003277378, October 2022, CRC Press.
- **Sunipa Roy, Abhijit Kumar Pal " Sensing using Memristive approach: Governing physics and instrumentation challenges",** Low dimensional nanoelectronic devices, ISBN: 9781003277378, October 2022, CRC Press.

- **Anurima Majumdar, Sunipa Roy, Chinmay Chakraborty, "An Analytic Approach to Diagnose Heart Stroke Using Supervised Machine Learning Techniques**" Intelligent Healthcare Infrastructure, Algorithms and Management, ISBN: 9789811681509, Springer Nature., July 2022.
- **Avali Banerjee, Shobhandeb Paul, "A Predictive Analysis for Diagnosis of COVID-19, Pneumonia and Lung Cancer Using Deep Learning**" Intelligent Healthcare Infrastructure, Algorithms and Management, ISBN: 9789811681509, Springer Nature., July 2022.
- **Suparna Biswas. (19th June, 2023). A Time Saving Image Segmentation Technique and Its Application to Detect Cotton Leaf Spot**. In: Shukla, A.K.,Sharma, B.P., Arabkoohsar, A., Kumar, P. (eds) Recent Advances in Mechanical Engineering. FLAME 2022. Lecture Notes in Mechanical Engineering. Springer,Singapore. https://doi.org/10.1007/978-981-99-1894-2_31(Scopus)
- **Suparna Biswas, Soumik Podder, "APPLICATION OF IOT IN SMART FARMING AND PRECISION FARMING: A REVIEW, Fog Computing for Intelligent Cloud IoT System,** Scrivener Publishing , Wiley Online Library. (In Press) (Scopus)
- **Soumik Podder, Sunipa Roy, Effect of Electrode Positioning on Methane Sensing Performance of Gas Sensor,** Innovations in Softwware Architecture and Computational Systems, American Institute of Physics (AIP) (SCOPUS and WoS)
- **Soumik Podder, Suparna Biswas, Sagnik Banerjee, Shaunak Das, Shibam Sanyal, "Blockchain Inspired Hi-Tech Agriculture- A State of the Art Review**; for the upcoming book,;Advanced Technologies and AI-Equipped IoT Applications in High-Tech Agriculture published by IGI Global in 2023 (SCOPUS)

Book published:

- **"Solid State Devices and Microelectronics", Sunipa Roy,** Chandan Kumar Ghosh, Sayan Dey,Abhijit Kumar Pal, Bentham Science Publishers, Pre-Print stage, Article in press.

DEPARTMENT: ECSE:

National Conference

- **Ravi Kumar, Souvik Das, Swagat Das, Tamasha Paul, Bapita Roy, "Design and Fabrication of IoT Based Air Quality Monitoring System",** 12 th Inter- University Engineering Science ; Technology, Academic Meet-2022, 11 th September, 2022, organised by Forum of Scientists, Engineers & Technologists (FOSET).

- **Md. Tarique Khan, Krishanu Pal,** Mrs. Saswati Chatterjee,Mrs. Suparna Maity **,"Arduino Based Fan Speed Control Monitoring",** 12 th Inter- University Engineering Science Technology, Academic Meet-2022, 11 th September, 2022, organised by Forum of Scientists, Engineers; Technologists (FOSET),

International Conference

- **Shilpita Hazra, Sampreet Dey, Sayani Dey, Sonali Das**, Adhish Kumar Chakrabarty,"Design of a smart residential surveillance system", AICTE sponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022),08-09 th July,2022, ISBN: 978-93-5593-089-7.
- **Sakya Mridha, Rahul Sarkar,Nandita Dey**,Suparna Maity,Santana Das, Bapita Roy; Saswati Chatterjee, IoT Based Weather Monitoring & Real Time Alert System AICTE sponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022),08-09 th July,2022, ISBN: 978-93-5593-089-7
- **Argha Majumder, Saugata Aich, Subhadeep Hore,**Santana Das, Suparna Maity, Bapita Roy, Mrinmoy Dutta, **Design of IoT Based Signal Inspection Communication System in a Paddy Field** AICTEsponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022) on 08-09 July 2022.

- **Argha Majumder, Saugata Aich, Subhadeep Hore, Ms. Santana Das, Ms. Suparna Maity, Ms. Bapita Roy, and Mr. Mrinmoy Dutta, "Design of IoT Based Signal Inspection & Communication System in a Paddy Field**", Published in AICTE sponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022) on 08-09 July 2022.
- **Sakya Mridha, Rahul Sarkar,Nandita Dey, Ms. Suparna Maity, Ms. Santana Das, Ms. Bapita Roy and Ms. Saswati Chatterjee "IoT Based Weather Monitoring & Real Time Alert System",** Published in AICTE sponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022) on 08-09 July 2022.
- **Anisha Chowdhury, Hindol Bhowmick, Anirban Saha, Ms. Bapita Roy, Ms. Suparna Maity, Ms. Santana Das, and Ms.Nabamita Paul "Design of an IoT based biomedical data integration system** Published in AICTE sponsored International conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022) on 08-09 July 2022.
- **Md. Tarique Khan, Krishanu Pal, Mrs. Saswati Chatterjee, Mrs. Suparna Maity,and Mrs Santana Das, "Arduino Based Fan Speed Control & Monitoring System",** 12th Inter University Engineering,

Science & Technology Academic Meet - 2022 & Innovative Model Competition for a Sustainable Society, Forum of Scientists, Engineers & Technologists (FOSET), 10th-11th Septmeber, 2022.

- **Kunal Maity, Ravi Kumar, Santana Das and Suparna Maiy, "Fabrication of IoT-Enabled System for Patient Health Care",** 13th Inter-University Engineering, Science & Technology Academic Meet – 2023 & Innovative Model Competition for a Sustainable Society , Forum of Scientists, Engineers & Technologists (FOSET), 23rd April, 2023.
- **Shilpita Hazra, Sampreet Dey, Sayani Dey,Sonali Das, Dr. Adhish Kr. Chakrabarty, "Design of A Smart Residential Surveillance System",** *Proceedings of International conference on Communication, Computing and Nano-Microwave Technology* (CCNMT 2022), pp.209-211, July 2022.

DEPARTMENT: FT:

National Conferences

- **Sayamdipta Das Chowdhury, Sayani Debnath,** Shubhobrata Saha, Souptik Bhattacharya, **Nanotechnology In Food Processing And Food Packaging Industry**, 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (Foset), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.
- **Ahana Laha, Koushani Chakraborty,** Saikat Mazumder, Amit Barman, **Overview Of Technique For Food Preservation And Effect Of Preservatives On Human Health**, 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (Foset), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.
- **Sagnik Saha, Santanu Dutta, Pritish Das,** Dr. Kakali Bandyopadhyay, Ms. Shairee Ganguly, **Study On Different Extraction Methods Of Food Biocolour**, 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (Foset), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.
- **Anushka Biswas, Dipika Bepary, Sharmeen Naaz,** Dolanchapa Sikdar, Monika Paul, **Emulsifying Properties By Non-Thermal Microwave Treatment Of Sunflower Protein: A Review,** 12th Inter-University Engineering Science & Technology Academic Meet – 2022 (Foset), Kolkata, 11th September, 2022, ISBN: 978-81-959819-1-5.

International Conference

- Souptik Bhattacharya, **Aditi Sarkar, Sayani Sarkar, Sreemoyee Chakraborty,** AICTE Sponsored International Conference on Communication, **Application of Green Nanotechnology in Food Process Engineering**, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- **Anisha Das, Aliul Islam, Suditi Jana, Rikta Chakraborty,** Monika Paul, Saikat Mazumder**, Detection of pesticides using Nanosensors**, AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- **Oindrila Mazumder, Sukanya Ray, Priyanka Majumdar, Parag Chattopadhyay, Satwik Bhunia,** Dr. Kakali Bandyopadhyay, **Heat Exchange in Microwave Heating with Rice Bran Oil: A Review**, AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- Kakali Bandyopadhyay, **Saurjaynee Biswas,** Shairee Ganguly, **Studies on Utilization of Microwave Heating on Protein Extraction from Ricebran,** AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- **Srishti Mandal, Joyita Khan, Purnasha Paul**, Shairee Ganguly, Kakali Bondyopadhyay, **Preservation of Perishable Food Commodities by Nano-Heat Transfer of Pulsed Indigo-Blue LED Irradiation Technology**, AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.
- **Srijan Das, Ritabina Ghosh, Varsha Singh,** Dolanchapa Sikdar, **A Review: Applications of Energy production by nanomaterials**, AICTE Sponsored International Conference on Communication, Computing and Nano-Microwave Technology (CCNMT 2022), 8-9 July, 2022, ISBN: 978-93-5593-089-7.

International Journal

- **Konishka Santra, Soumajit Ghosh, Sudip Paul, Shairee Ganguly, IoT Based Thermoelectric Mini Cold Storage Unit Operated by Peltier Effect,** International Journal for Modern Trends in Science and Technology, 9(05): 1-8, 2023, ISSN: 2455-3778 online DOI: https://doi.org/10.46501/IJMTST0905001

- **Riya Dasgupta, Snehadrita Kundu, Riona Saha, Sudipta Adhikary, Shairee Ganguly, Valorization of Food Processing Industrial Wastes: A Pathway towards Sustainable Environment,** International journal of research and analytical reviews, May 2023, Volume 10, Issue 2, ISSN 2348-1269

- **O. Mazumder, P .Majumdar, S. Bhunia, R. Pahari, R., A. SK.Masud, K. Bandyopadhyay, Development and Utilization of Food Bio-Colours: A Review,,** International Journal for Modern Trends in Science and Technology, 9(04): 396-400, 2023, UGC Approved Journal (UGC Journal Id : 43137), ISSN: 2455-3778, Impact Factor:4.175, DOI: https://doi.org/10.46501/IJMTST0904058

- **Kakali Bandyopadhyay, Elina Sur, Indranil Das, Junaid Ahmed Ansari, Neha Basfore and Poulami Deb, A Review on Pea Peel used as a Biodegradable Food Waste,** International Journal for Modern Trends in Science and Technology, 9(05):579-584, 2023, UGC Approved Journal (UGC Journal Id : 43137), ISSN: 2455-3778, Impact Factor:4.175, https://doi.org/10.46501/IJMTST0905099

DEPARTMENT: ASHU:

National Conferences

- **Arunabha Paul, Dr. Indrajit Bose, Namrata Chakrabortty**, "Alexa Take Me to the Moon!—Language Use of an AI Virtual Assistant" in proceedings of 12th Inter University Engineering, Science & Technology Academic Meet - 2022 and Innovative Model Competition for a Sustainable Society

- **Debojyoti Mukherjee, Suronjona Banerjee, Sanjukta Banik, Srabasti Deb, Sreyasree Basu and Chandan Kumar Bhattacharya**, "Comparative Analysis of Water Quality Parameter of Water Bodies Inside and outside of College Premises" in proceedings of SAMATVA 2022 (Tech Fest of Electrical Engg. Dept. GNIT

- **Sohini Bhattacharyay, Shaoli Das, Reshmi Rajeevan, KrishanuPal, Mainak Debnath , Indrajit Bhattacharyya, "**BIO-Enzyme : An Approach to sustainable life" in proceedings of SAMATVA 2022 (Tech Fest of Electrical Engg. Dept. GNIT

- **Debojyoti Mukherjee, Srabasti Deb, Suronjona Banerjee, Sreyasree Basu, Indrajit Bhattacharyya, Mainak Debnath,** "Food Waste Management: An Approach Towards Bioremediation" In The Proceedings Of 12th Inter University Engineering, Science & Technology Academic Meet 2022 &

Innovative Model Competition For For A Sustainable Society Organized By Forum Of Scientists, Engineers And Technologists (Foset) In Guru Nanak Institute Of Technology (GNIT)

- **Sohini Bhattacharyay, ShaoliDas, Mainak Debnath, Indrajit Bhattacharyya, Sreyasree Basu**, "Restoration and rejuvenation of water bodies with Bioenzymes produced from citrus fruit peels" in the proceedings of 12th Inter University Engineering, Science & Technology Academic Meet 2022 & Innovative Model Competition For For A Sustainable Society Organized By Forum Of Scientists, Engineers And Technologists (Foset) In Guru Nanak Institute Of Technology (GNIT)

- **Dr. Soma Mukherjee , Biswajit Mandal, Aparna Shaw , and Dr. Indrani Sarkar** : "FLOOD MANAGEMENT BY USING AI TECHNOLOGY" in the conference NCSTCS 2K22 held during 9-10th Sept 2022

- **Dr. Indrani Sarkar, Saswata Ghosh, Dr. Soma Mukherjee, "** Use of Nanotechnology for Water Purification Process: Indian Scenario" in the conference NCSTCS 2K22 held during 9-10th Sept 2022

DEPARTMENT: IT:

International Seminar / Conference

- Suaprna Karmakar, Trishita Ghosh, **Sougata Roy, Anurati Kar, Moumita Basak, "Deep Neural Net Based Approach for Air Pressure Prediction"**Second International Conference on Innovations in Software Architecture and Computational Systems (ISACS 2022),21 – 22 July, 2022.Proceeding will be published in AIP publications (Scopus, Web of Science)

- Tridib Chakraborty, Sudeep Ghosh, Trishita Ghosh, MD Mizan Chowdhury, Dr. Moumita Das, Suparna Das, **Sayani Sengupta, Debayan Roy, Gourav Nandy, Roumita Singha, Pallab Nath, Sriparna Ghosh, "Image Colorization using Deep Learning" AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022**

- **Katha Roy, Ishan Goswami, Jagyaseni Sengupta, Debashruti Das,** Moumita Das, Sudeep Ghosh, Tridib Chakraborty, MD Mizan Chowdhury, Suparna Karmakar, Trishita Ghosh **"Music Genre Interpretation Study using Machine Learning and Regression Analysis Approach"** AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022.

- Dr.Moumita Das,Tridip Chakraborty, Sudeep Ghosh, Suparna Karmakar,Trishita Ghosh, Mizan Chowdhury,**Raunak Seal, "New frontiers of Cyber Warfare"** AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022.

- Suparna Karmakar, Trishita Ghosh, Tridib Chakraborty, **Anurati Kar, Sougata Roy, Moumita Basak, "OCR based approach for Auto-Detection and Recognition of Vehicle Number Plate"** AICTE Sponsored International Conference on Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9th July, 2022.

International Journal Publication

- Dr.Moumita Das , Suparna Karmakar, Trishita Ghosh, Chowdhury Md. Mizan, **Sanju Ghosh, Soumyajit Baneerjee "Petri Net Based Design of Auto-Signaling Framework in Railway Network",** International Journal of Scientific Research in Engineering and Management (IJSREM) Volume 06, Issue 06 July 2022.

- Chowdhury Md. Mizan, Sudeep Ghosh, Tridib Chakroborty, Moumita Das,**Swarnava Sengupta, Sandip Mondal, Suman Dey, Swarup Mondal, Biswarup Nayak "Multi Biometric System by Iris and Fingerprint",** International Journal of Scientific Research in Engineering and Management (IJSREM) Volume 06, Issue 06 July 2022.

- Moumita Das, Chowdhury Md. Mizan, Suparna Karmakar, **Prince Kumar,"STRATEGY TO CREATE VARIABLE KEYS IN MODERN CRYPTOGRAPHY",** International Journal of Progressive Research in Engineering Management and Science Volume 07, Issue 07 July 2022.

- **Sushmita Paul, Sarbajit Ghosh,** Chowdhury Md Mizan**"A SURVEY OF MULTIBIOMETRIC SYSTEMS",** International Journal of Scientific Research in Engineering and Management (IJSREM) Volume 06, Issue 06 July 2022.

- Sudeep Ghosh, SK Hafizul Islam, **Abhishek Bisht, Ashok Kumar Das, "Provably Secure Public-Key Encryption with Keyword Search Scheme for Data Outsourcing in Cloud Environment"** Journal of System Architecture SCI Indexed, IF-5.83 2023 Volume 139,102876, ISSN 1383-7621, https://doi.org/10.1016/j.sysarc.2023.102876

- **Tridib Chakroborty, Sudeep Ghosh, Gopal Pramanik**, **Cheryl Mukherjee**, **"Stock market Trend Prediction Using LSTM Model for Future Prediction"** GRADIVA REVIEW-JOURNAL, VOLUME 9 ISSUE 5, May 2023. Scopus Index.

- **Biswas, S., Maity, P., Bhattacharya, S., Goswami**, A., Karmakar, S. (2023). **A Time Saving Image Segmentation Technique and Its Application to Detect Cotton Leaf Spot.** In: Shukla, A.K., Sharma, B.P., Arabkoohsar, A., Kumar, P. (eds) Recent Advances in Mechanical Engineering. FLAME 2022. Lecture Notes in Mechanical Engineering. **Springer**, Singapore. https://doi.org/10.1007/978-981-99-1894-2_31

- Chowdhury Md Mizan**, Soudip Panja, Radha Kumari, Oiendrila Banerjee**, "**Face Detection and Recognition Using OpenCv"** GIS Science Journal VOLUME 10, ISSUE 5, June 2023, ISSN NO : 1869-9391, pp-1293-1299. (Scopus Index).

- Chowdhury Md Mizan, Tridib Chakraborty, Trishita Ghosh, Suparna Karmaka, Sudeep Ghosh, **Mojibul Rahaman** "Biometric software that maps human Face Recognition Using Python" GIS Science Journal VOLUME 10, ISSUE 5, May 2023, ISSN NO : 1869-9391, pp-772-778. (Scopus Index).

- **Tridib Chakraborty, Sudeep Ghosh, Chowdhury Md Mizan,** Raunak Sil**"** Quantum Computing: a Detailed Overview" GIS Science Journal VOLUME 10, ISSUE 5, May 2023, ISSN NO : 1869-9391, pp-2007-2022. (Scopus Index)

DEPARTMENT: EE:

National Conference

- **SafflayaPorel, Sukanya Roy, Eshika Roy, Suparna Biswas, Sayan Roy Chaudhuri, "ECG Based Heart Disease Detection Method",** 12th Inter-University Engineering Science & Technology, Academic Meet-2022, Forum of Scientists, Engineers & Technologists (FOSET), GNIT, Kolkata, 11th September, 2022.

- **Ramanuj Bhowmick, SoumikNandy, "GSM Based Smart Power Monitoring",** 12th Inter-University Engineering Science & Technology, Academic Meet-2022, Forum of Scientists, Engineers & Technologists (FOSET), GNIT, Kolkata, 11th September, 2022.

- **Chandrima Ghosh, Sarnava Mallick, Neeraj Yadav, "Review of An efficient Scientific Calculator",** 12th Inter-University Engineering Science & Technology, Academic Meet-2022, Forum of Scientists, Engineers & Technologists (FOSET), GNIT, Kolkata, 11th September, 2022.

- **Shyamal Kumar Roy, Suman Ghosh, Madhumita Chakraborty, Amit Debnath, Kaushik Maji, Sushovon Paul, "Smart Traffic System Using Arduino",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

- **Subhamoy Dey, Souvik Pal, Aniruddha Sengupta, Manoshi Das, Dr. Barnali Kundu' "Automated Transmission Line Fault Detection Using Distance Locator",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

- **Tushar Ghosh, Sahil Mondal, Soumya Das, Amit Debnath, Susovan Dutta, "Home Automation Using Node-MCU Wifi Module",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

- **Aditi Maity, Diya Barui, Suman Ghosh, Barnali Kundu Sarkar, Shyamal Kumar Roy, Aveek Chattopadhyaya' "Optimal Placement of Phasor Measurement Unit for Complete Observability of the Power System",** 13th Inter-University Engineering Science & Technology Academic Meet-2023, Forum of Scientists, Engineers & Technologists (FOSET), Innovative Model Competition for a Sustainable Society, Sister Nivedita University, Kolkata, 23rd April 2023.

International Conference

- **Suparna Biswas, Saswati Rakshit, "Continuous and Discrete Wavelet Transform Based Electrocardiogram Signal Analysis for Diagnosis of Arrythmia",** AICTE Sponsored International Conference on Communication, Computing and Nano Microwave Technology (CCNMT-2022), July 8 – 9, 2022 at GNIT-Kolkata (Session Best Paper Award for Track 7).

- **Debkumar Singha, Ankur Pal, Debanjan Paul, Debaraj Dey, Pradipta Saha, "Integration of FACTS Controllers to the Distribution Network for Loss Reduction and Power Quality Improvement",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **Ramanuj Bhowmick, Tanveer Hussain, "DTMF based home appliance control",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **Prasenjit Ganguly, Nakibbindin, Ayan Chakraborty, "Design of a Micro-Grid System which helps Hospitals increase resilience, cut costs and improve sustainability",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **"A Brief Review on Battery Modelling and State of Charge Estimation of Battery",** International Conference on Communication Computing Nano-Microwave Technology (CCNMT 2022), 8th-9th July, 2022, Kolkata, India.

- **Ramanuj Bhowmick, Subhajit Dutta, Vishal Roy, "Cloud Based Intelligent Accident Proof Helmet and Detect State of Intoxication",** 3rd International Conference on Artificial Intelligence and Smart Energy (ICAIS 2023), JCT College of Engineering and Technology, 2-4, February 2023

International Journal

- **RamanujBhowmick, Soumik Nandy, "GSM Based Smart Power Monitoring",** AMERICAN JOURNAL OF ADVANCED COMPUTING, Volume 1, Issue 1, https://doi.org/10.15864/ajac.21007.

2021-22

DEPARTMENT: CSE:

International Journal

- Suman Bhattacharya, Mahamuda Sultana, **Bikramjit Das, Biplab Roy, "A Deep Neural Network Framework for Detection and Identification of Bengal Tigers"** Innovations in Systems and Software Engineering, Scopus, ESCI (Springer) (2022) ISSN: 1614-5046

- Amrut Ranjan jena, Madhusmita Mishra, **Rantadeep Mazumder** "A Framework for Emotion Detection using Open Source Computer Vision and Convolutional Neural Network" Vol. 12 - No. 4 (April 2022), International Journal of Engineering Research and Applications, ISSN: 2248-9622.

- Sourish Mitra,Pallabi Das, **Nilimesh Chakraborty, Sounak Majumdar, Tiyasa Barman, Poulomi Das, Riya Pahan, Tiyas Ghosh," IoT Based Saplings Protection System against Unsuitable Natural Climate",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, May-2022, DOI: 10.22214/ijraset.2022.43526, Impact factor-7.538.

- Sourish Mitra, **Subhaditya Banerji , Reshmi Das, Sayan Sarkar,** Pallabi Das, Bidyutmala Saha, Rafiqul Islam , Rupak Chakraborty" **Virtual Reality (VR) and Augmented Reality (AR) Based 360 Degree Panoramic Environment Generator for Virtual Tour",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, May-2022, DOI: https://doi.org/10.22214/ijraset.2022.43632, Impact factor-7.538.

- **Prithviraj Biswas, Rohan Chakraborty, Tathagata Mallik, Rohan Chakraborty, Sk Imran Uddin, Shreya Saha,** Pallabi Das, Sourish Mitra, **" Flight Price Prediction: A Case Study",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022, DOI: https://doi.org/10.22214/ijraset.2022.43666, Impact factor-7.538.

- **Amlan Dutta, Abhijit Pal, Mriganka Bhadra, Md. Akram Khan,** Rupak Chakraborty, Sourish Mitra, Rafiqul Islam, Nirupam Saha, **"Object Detection Technique using a fast R-CNN based Technique",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022, DOI: https://doi.org/10.22214/ijraset.2022.44112, Impact factor-7.538.

- **Neela Chattyopadhyay, Hrittika Maity, Bipsa Debnath, Debanjana Ghosh,** Rupak Chakraborty, Sourish Mitra, Rafiqul Islam, Nirupam Saha, "**Classification of MNIST Image Dataset Using Improved Convolutional Neural Network",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022, DOI: https://doi.org/10.22214/ijraset.2022.44111, Impact factor-7.538.

- Moloy Dhar, **Paromita Saha**, Nirupam Saha, Sourish Mitra, Bidyutmala Saha, Pallabi Das, Rafiqul Islam, Sutapa Sarkar, "**Object Detection using Deep Learning Approach",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022,Impact factor-7.538.

- **Arindam Dutta, Ekta Sardar, Sarbani Dutta, Sushmita Saha**, Rupak Chakraborty, Moloy Dhar, Sourish Mitra, Biswajit ChakiChoudhury,**" Identification of Cancerous Cell from Noisy Images",** published in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653,Vol-X, Issue-V, June-2022,Impact factor-7.538.

International Conference

- **Amlan Dutta, Abhijit Pal, Mriganka Bhadra, Md. Akram Khan, and Rupak Chakraborty, "An Improved K-Means Algorithm for Effective Medical Image Segmentation",** Proceedings of International Conference on Innovations in Software Architecture and Computational Systems, Springer, India, Published on October 12, 2021 (SCOPUS Indexed).

- **Ankita Adhikari, Ashesh Roy Choudhuri, Debanjana Ghosh, Neela Chattopadhyay, and Rupak Chakraborty, "Breast Cancer Histopathological Image Classification using Convolutional Neural**

Networks", Proceedings of International Conference on Innovations in Software Architecture and Computational Systems, Springer, India, Published on October 12, 2021 (SCOPUS Indexed).

- **Subhajit Pati, Snehashis Chakraborty, Soumik Sarkar, Subarna Guin, Sourav Mallick, Amrut Ranjan Jena, and Santanu Sen, "A Framework for Predicting Placement of a Graduate using Machine Learning Techniques"**, Proceedings of International Conference on Innovations in Software Architecture and Computational Systems, Springer, India, Published on October 12, 2021 (SCOPUS Indexed).
- **Subhajit Sanyal, and Moloy Dhar, "A Video based Uncertainty Technique for Human Action Recognition – A Deep Learning Approach",** 3rd International Conference of Communication, Devices and Computing (ICCDC 2021), Springer, India
- **Swarnali Kar, Swagata Srimani, Payel Dey, Sohan Kumar Dutta, Sumana Garani, and Srabani Kundu, "Healthcare Management System in COVID Scenario"**, Published in National IE Conclave Conclave 29-30 October,2021.
- **Amlan Dutta, Mriganka Bhadra, Abhijit Pal, Md Akram Khan, and Rupak Chakraborty, "Medical Image Segmentation using Improved K-Means Algorithm",** Published in National IE Conclave 29-30 October,2021.
- Rupak Chakraborty, **Ashesh Roy Choudhuri, Barnali Guha Thakurata, Bipsa Debnath, Debanjana Ghosh, Hrittika Maity, Neela Chattopadhyay**, "**MNIST Image Classification using Convolutional Neural Networks**", International Conference on Modeling, Simulation and Optimization (CoMSO 2021), Springer, NIT Silchar, December 16-18, 2021.
- Rupak Chakraborty, **Amlan Dutta, Abhijit Pal, Ahmad Atik, Mriganka Bhadra, Md Akram Khan**, "**Detection of Objects using a Fast R-CNN based Approach**", International Conference on Modeling, Simulation and Optimization (CoMSO 2021), Springer, NIT Silchar, December 16-18, 2021.

DEPARTMENT: FT:

International Journal

- **Poulami Banerjee, Deblina Sen, Writtika Das "Review on Anthocyanin Extraction from Different Natural Sources and Their Fortification in Non Alcoholic Beverages"**, International Journal for

Modern Trends in Science and Technology (2021), 7, 0707032, pp. 63-67. https://doi.org/10.46501/IJMTST0707011, WOS Indexed.

- **Srijeeta Saha, "Fortification of tomato pomace powder in dairy Products",** International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 7 July 2021, pp: 1789-1797. DOI: 10.35629/5252-030717891797.

- **Shalini Chanda, "Active & Intelligent Packaging Technologies: An Aspect of Food Safety Management".** (DOI:http://dx.doi.org/10.31782/IJCRR.2022.14303), International Journal of Current Research and Review (ISSN:2231-2196 (Print), e-ISSN: 0975-5241), Volume: 14, Issue 03, Pg: 12-18, February 2022. Publons Indexed.

- **Suprabha Dey, Avilash Roy, Ankit Paul, Neha Saha, Anupama Tarafdar, "Food and medicinalproperties of hibiscus (Hibiscus sabdariffa & Hibiscus rosasinensis)",** (DOI: https://doi.org/10.7770/safer-V12N1-art2528), Sustainability, Agri, Food and Environmental Research (ISSN: 0719- 3726), Volume:12, Published Online: Feb 17, 2022. UGC Care-I Journal.

- **Anisha Das, Aliul Islam, Hillol Dey, Sudipta Dutta, "Pineapple Waste and Its Utilization"** (https://doi.org/10.46501/IJMTST0805039), International Journal for Modern Trends in Science and Technology (ISSN: 2455-3778 online), Volume: 8, Issue 05, Pg: 272-278, 2022. WoS & Thomson Returs Indexed.

- **Sayandeep Halder, Arkodeep Karmakar, Anushka Sengupta,Himon Das, Shrijit Paul, Sourav Das "A review of Improvement of the fried oil By Treatment with Activated Carbon and Silica, Magnesium Oxide, Activated Clay,and Aluminum Hydroxide Gel",** (DOI: https://doi.org/10.37896/aj11.3/003), ADALYA JOURNAL, Volume 11, Issue 3, 2022.

- **Srijeeta Saha, Writtika Das, Poulami Banerjee, Deblina Sen, "A STUDY ON DIFFERENT TYPES OF EDIBLE PACKAGING MATERIALS (PLANTS BASED)"** International Journal of Engineering Applied Sciences and Technology, Vol. 6, Issue 7, 2021,ISSN No. 2455-2143, Pages 219-226, Index Copernicus indexed.

International Conference

- **Suditi Jana, Santanu Dutta, Sustainable/Digital Entrepreneurship: An Accelerating Demand of 21st Century,**ICSSR Sponsored International Conference on **"Emerging New World Order in Post Pandemic Scenario"**, Organized by St Xavier's College, Jaipur, Affiliated to University of Rajasthan, Held on 18-19 February 2022.

National Conference

- **Supriti Manna, Consequence of Covid-19 on India's FMCG Sector; Digital Automation, Eastern RegionalConclave of Students'** Chapters of The Institution of Engineers (India) on **"Role of Budding Engineers in Smart and Sustainable Technologies "**, organized by Institution of Engineers (India), 29-30 October 2021

DEPARTMENT: EE:

International Journal

- **Meghna Sengupta, Arijit Das, Ramanuj Bhowmick, "Pyrolysis: An Evolution of Waste Management",** International Journal of Engineering Research & Technology (IJERT), Vol. 9, no. 11, pp. 98-101, July 2021. (ISSN: 2278-0181), NCETER - 2021 Conference Proceedings, (Scopus, Impact Factor - 7.86)

- **Abhirup Bhowmick, Trinika Das, Sayan Singh, "Review on Hybrid Inverter",** International Journal of Engineering Research & Technology (IJERT), Vol. 9, no. 11, pp. 126 -129, July 2021. (ISSN: 2278-0181), NCETER - 2021 Conference Proceedings, (Scopus, Impact Factor - 7.86)

- **Pratap Hazra, Raj Kumar Saha, Subhajit Debnath, "Design of A Novel Power Boost Converter With Dual Coupled Inductors"**, International Journal of Engineering Research & Technology (IJERT), Vol. 9, no. 11, pp. 94 - 97, July 2021. (ISSN: 2278-0181), NCETER - 2021 Conference Proceedings, (Scopus, Impact Factor - 7.86).

- **Pratap Hazra Raj Kumar Saha , Subhajit Debnath , MD. Yusuf Yuhana , Shaoli Paul, "A high voltage dc railway system",** First Eastern Regional Conclave of Students' Chapters of The Institution of Engineers (India) 2021-2022, 29th-30th Oct., 2021.

- **Amrita Chanda, Sagar Bera, Susovan Dutta, "Design and Simulation of 5KWp Grid Connected Photovoltaic system Using PVSYST",** Lecture Notes on Electrical Engineering (LNEE)-SCOPUS Indexed(Springer-Nature Book Series). (Accepted), March 2022.

- **Pratap Hazra, Raj Kumar Saha, Subhajit Debnath, Debasree Saha, Priyanka Dutta"A DC – DC POWER BOOST PRS CONVERTER",** International Research Journal of Modernization in Engineering Technology and Science, Vol. 4, no. 5, pp. 2234 - 2240, May, 2022. (e-ISSN: 2582-5208), NCETER.

- **Amrita Chanda , Sagar Bera, Susovan Dutta, "A Brief Study of Designing A 10KWP Grid Connected Photovolatic System using PVSYST",** Lecture Notes on Electrical Engineering(LNEE)-SCOPUS Indexed(Springer-Nature Book Series). (Accepted), March 2022.

International Conference

- **Pratap Hazra, Raj Kumar Saha, Subhajit Debnath, Debasree Saha, Priyanka Dutta, "DesignOf A DC – DC High Power Boost Converter",** 4th International Conference on Energy,Power, and Environment (ICEPE 2022)", 29 th April 2022 – to 1 st May 2022, National Institute of Technology Meghalaya, Shillong.

- **Raj Kumar Saha, Pratap Hazra, Smriti Dutt, Suman Kumari, Poulami Das, Shilpa Dutta,Subhajit Debnath, Aveek Chattopadhyaya, Debasree Saha, "Design of a DC-DC-AC Power Boost Inverter"** , International Conference on Recent Advances in Engineering andTechnology (ICRAET) in Siliguri, India during 18 May, 2022.

- **Amrita Chanda , Sagar Bera, Susovan Dutta, "A Brief Study of Designing A 5 KWp GridConnected Photovoltaic System Using PVSYST",** IEEE Techithon 2021.

- **Amrita Chanda , Sagar Bera, Susovan Dutta, "A Brief Study of Designing A 10 KWp Grid Connected Photovoltaic System Using PVSYST"**,ICACCES 2022, March

DEPARTMENT: AEIE:

International Conference

- **Shilpita Hazra, Sakya Mridha, Sampreet Dey,** Bapita Roy, **"Smart Economical Irrigation And Air Pollution Control And Monitoring System For Rural And Industrial Area"** Published in Symposium Institute of Engineers Students National Conclave 2021. 29th-30th Oct., 2021.

- **Anisha Chowdhury, Nandita Das, Ms. Suparna Maity, Ms. Santana Das** "Automatic Coloured Object Sorting Using IoT", Published in National IE Conclave 2021. 29th-30th Oct., 2021.

DEPARTMENT: ECE:

International Journal

- **Internet Of Things (IOT) Based Smart Health Monitoring System**- Sougata Karmakar, Susmita Pallob, Subrata Dutta, Sayan Roy Chaudhuri, Suparna Biswas. International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653; IC Value: 45.98; Volume 9 Issue VII July 2021- Available at www.ijraset.com

- **Koushik Pal, Souvik Das, Soumyadeep Sett, Subhojyoti Saha, Soumyadeep Saha, Soumyadeep Roychoudhury "A Novel Face Detection Technique Using Open CV",** International Journal of Research in Engineering, Science and Management Volume 4, Issue 7, ISSN: 2581-5792, July 2021 page-121-124

- **Koushik Pal,Anjali Kumari, Debabnjana Das, Debarati Roy, Mahuya Maity, Plaban Mal "A New Type of Solar Energy Measurement System using PIC Controller"**, International Journal for Research in Applied Science & Engineering Technology (IJRASET)ISSN: 2321-9653; Volume 9 Issue VI July 2021, page-5195-5199

- **Koushik Pal, Poushali Paul, Ankit Kumar, Adrita Roy "A SELF-ACTIVATING PLAYFUL STEM ROBOT USING RASPBERRY PI"**, International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 08 Issue: 08 | Aug 2021, p-ISSN: 2395-0072, page 177-182

- **Suchandra Roy, Shweta Roy , Indranil Dey Sarkar , Rajorsi Chatterjee, Swarna Kamal Pal, Adrija Sengupta** and Surajit Basak, "Design and Implementation of Drone with Jammer" , *International Journal of Engineering Science and Computing (IJESC)*, vol. 11, no. 7, pp. 28391-28395, July 2021. ISSN: 2321 3361

- **Dipta Pal** and Surajit Basak, "Bit Error Rate (BER) Comparison in AWGN Channel of BFSK and QPSK using Matlab and Simulink", *International Journal of Innovative Research in Technology (IJIRT)*, vol. 8, Issue 2, pp. 258- 261, July 2021. ISSN: 2349-6002

- **Partha Sarathi Dutta**, Surajit Basak and Kaushik Roy, "Cross-Layer Routing for Outage Minimization in Multi-hop Ad hoc Networks", *International Journal for Research in Applied Science & Engineering Technology*, vol. 9, Issue VII, July 2021.

- Avali Banerjee, **Shobhandeb Paul, Santanu Saha, Suvasish Paul,** "Analysis of Supervised Machine Learning Techniques for Diagnosis of Disease of Infant Baby", International Journal for Modern Trends in Science and Technology (IJMTST), Volume 7, Issue 06, 2021. ISSN: 2455-3778. DOI: 10.46501/IJMTST0706002.

- Avali Banerjee**, Deepak Pandey, Mamata Singh, Atrayee Gayen, Kashish Rani, Prafulla Kumar Sahani**, "Ayushi Jaiswal TechDoc - System for Queue Management of Pharmacies and Online Consultation of Doctors", International Journal for Modern Trends in Science and Technology (IJMTST), Volume 7, Issue 06, 2021. ISSN: 2455-3778. DOI: 10.46501/IJMTST0706006.

- Avali Banerjee, **Swrnila Nath, Rounak Ghosh, Srinjan Majhi, Sudipta Das, Mrinmoy Kar, Sreya Bhattacharya, "Drone: The Solution to Delivery Problems"**, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 9 Issue V May 2021. ISSN: 2321-9653. DOI: 10.22214/ijraset.2021.34696.

- **Shobhandeb Paul, Santanu Saha, Suvasish Paul, Souradeep Kundu, Taniya Mitra,** Avali Banerjee, "Comparative Analysis on Stroke Prediction using various Supervised Machine Learning Techniques", International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 9 Issue V May 2021. ISSN: 2321-9653. DOI: 10.22214/ijraset.2021.34416.

- **Koustab Maity**, Avali Banerjee, **"An Application of IoT to revolutionize Agro Sector",**International Journal for Research in Applied Science & Engineering Technology (IJRASET),Volume 10 Issue I January 2022. ISSN: 2321-9653. DOI: 10.22214/ijraset.2022.39709.

- Avali Banerjee, **Deepak Pandey, Mamata Singh, Atrayee Gayen, Kashish Rani, Prafulla Kumar Sahani, "Our Indian Shop – E-Commerce Website Interconnecting the Farmers, Shopkeepers, Delivery Personnel and Consumers",** International Journal for Modern Trends in Science and Technology (IJMTST), Volume 7, Issue 12, December 2021. ISSN: 2455-3778. DOI:10.46501/IJMTST0712003 .

- **Sourjyadip Sarkar, Sourav Paul, Soumyajit Goswami, Souman Bej, Saikat Ghorai,** Avali Banerjee, Suparna Biswas, **"A Review on Security of Personal Credentials through Smart Technology using**

Advanced Digital Signatures", International Journal of Technology and Empirical Research(IJTER), Volume 1, Issue 1, September 2021.

National Conference

- Avali Banerjee, **Mamata Singh, Deepak Pandey and Kashish Rani, "QuickDoc - Online Doctor Consultation and Queue Management of Pharmacies",** First Eastern Regional Conclave of Student's Chapter of The Institution of Engineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30th October 2021.

- Avali Banerjee, **Shobhandeb Paul, Santanu Saha and Suvasish Paul, "IOT Based Smart Baby Monitoring System",** First Eastern Regional Conclave of Student's Chapter of The Institution of Engineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30th October 2021.

- **Sourjyadip Sarkar, Sourav Paul, Soumyajit Goswami, Souman Bej, Saikat Ghorai**, Avali Banerjee and Suparna Biswas, **"Human Credentials and Security through Smart Technology using Advanced Digital Signatures",** First Eastern Regional Conclave of Student's Chapter of The Institution of Engineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30th October 2021.

- Ayantika Goswami, Palasri Dhar, **Hrithika Saha,** Sunipa Roy, **Sumedha Bhattacharya**, Anurima Majumdar, Antara Ghosal, Avali Banerjee, **"A Comprehensive Review on High Electron MobilityTransistor (HEMT)",** First Eastern Regional Conclave of Student's Chapter of The Institution ofEngineers (India) in association with All India Student's Committee at GNIT Kolkata, 29th – 30thOctober 2021.

International Conference

- **Koushik Pal, Sayantani Das, Souvik Mondal, Shirsendu Banerjee,** "A Novel Agronomical Technology for Polar Region's Cultivation During Winter Dark", **5th International Conference on Electronics, Materials Engineering & Nano-Technology,** 24 to 26th September 2021, Kolkata.

- Souman Bej, Sourjyadip Sarkar, Soumyajit Goswami, Sourav Paul, Avali Banerjee, "A Review on Core Infrastructures for Establishment of a Smart City", **5th International Conference on Electronics, Materials Engineering and Nano-Technology (IEMENTech -2021),** Institute of Engineering & Management, Kolkata, 24-26th September 2021.

DEPARTMENT: IT

International Conference

- **Soumyadipta Basu "Repairing TSVs for 3D ICs using Redundant TSV",** International Conference on Industrial Instrumentation & Control (ici2c-2021) organized by Applied Electronics & Instrumentation Engineering Department, RCC Institute of Information Technology, Kolkata, From 21st & 22nd August Conference Proceedings will be published in "Lecture Notes in Electrical Engineering" Springer ISSN: 1876-1100 (Scopus Indexed).

- **Debayan Roy, Sriparna Ghosh, Gourav Nandy, Sayani Sengupta, Roumita Singha,Pallab Nath " Auto Colorization of Photographic Pictures:Image Colorization using Deep Learning"** Published in Symposium Institute of Engineers Students National Conclave 2021, 29th-30th Oct., 2021.

- **Suparna das, Katha Roy, Jagyaseni Sengupta, Ishan Goswami , "Interpreting Genres of Music using Machine Learning"** Published in Symposium Institute of Engineers Students National Conclave 2021. 29th-30th Oct., 2021.

- **Suparna Das, Raunak Seal, "Uses of Holography in Virtual meets"** Published in Symposium Institute of Engineers Students National Conclave 2021. 29th-30th Oct., 2021.

- **Koushik Halder, Raka Basu,Samarpitha Das,Aditya Manna,"Brief Study on Blockchain Technology"** Published in Symposium Institute of Engineers Students National Conclave 2021. 29th-30th Oct., 2021.

- **Suparna Das, Sayani Sengupta, Debayan Roy, Gourav Nandy, Roumita Singha, Pallab Nath, Sriparna Ghosh, "Image Colorization using Deep Learning"** AICTE Sponsored International Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8 th -9 th July, 2022.

- **Katha Roy, Ishan Goswami, Jagyaseni Sengupta, Debashruti Das, "Music Genre Interpretation Study using Machine Learning and Regression Analysis Approach"** AICTE Sponsored International

Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9 th July, 2022.

- **Raunak Seal, "New frontiers of Cyber Warfare"** AICTE Sponsored International Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9 th July, 2022.
- **Anurati Kar, Sougata Roy, Moumita Basak, "OCR based approach for Auto-Detection and Recognition of Vehicle Number Plate"** AICTE Sponsored International Conferenceon Communication Computing Nano-Microwave Technology (CCNMT 20222), 8th-9 th July, 2022.

DEPARTMENT: ASHU

International Journal

- **Masud Rana, Sourav Majumdar, Pushpdant Jain, Anindya Malas, Rururaja Pradhan, Sandeep Choudhury & Jayanta Kumar Biswas,** Evaluation and Analysis of Strain in the Screw Head for Lumbar Pedicle Screw Fixation: An Experimental and Finite Element Study, International Journal of Multiscale Computational Engineering, Vol. 19, No. 2, pp. 1-8, June 2021, DOI: 10.1615/IntJMultCompEng.2021039052 (SCI Indexed, Impact Factor: 1.508)

- **Anindya Malas, Masud Rana, Pushpdant Jain, Sourav Majumdar, Anupam Alok, Rururaja Pradhan & Jayanta Kumar Biswas,** Effect of Carbon Fiber Reinforced-Polyetheretherketone (CFR-PEEK) Composite Rod for Pedicle Screw-Rod Semi-rigid Fixation: A Finite Element Study, International Journal of Multiscale Computational Engineering, Vol. 19, No. 3, pp. 1-9, August 2021, DOI: 10.1615/IntJMultCompEng.2021039785 (SCI Indexed, Impact Factor: 1.508).

DEPARTMENT: CA

International Conference

- **Dibyajyoti Mukherjee, Souvik Samnta, Sangram Nandi, Debdip Hazra, "**A A learning approach for Neural Networks using Deep Learning", published in First Easten Regional conclave of students chapter on 30th oct, 2021.

- **Indrani Barui, Sonali Mondal, Pritika Mukherjee, Swagata Mondal,** "A review on security in Smart Grid", published in First Easten Regional conclave of students chapter on 30th oct, 2021.

2020-21

DEPARTMENT: CSE

International Conference

- **Subhajit Pati, Sourav Mallick, Snehashis Chakraborty, Rajbinder Kaur,** "A regression model frame with IoT to predict covid zone" Accepted in (31st July-2020) International Online Conference on Engineering Response to COVID- 19 (IOCER COVID-19) organize by JIS College of Engineering on 8th and 9th October 2020 (Conference proceedings will be published in Journal of Physics: Conference Series indexed in SCOPUS, as well as EI Compendex and Inspec)
- **Ankita Adhikari, Ashesh Roy Choudhuri, Debanjana Ghosh, Neela Chattopadhyay,** "Breast Cancer Histopathological Image Classification using Convolutional Neural Networks", International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).
- **Amlan Dutta, Abhijit Pal, Mriganka Bhadra, Md Akram Khan,** " An Improved K-Means Algorithm for Effective Medical Image Segmentation", International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).
- **Subhajit Pati, Snehashis Chakraborty, Soumik Sarkar, SubarnaGuin, Sourav Mallick**," A Framework for Predicting Placement of a Graduate using Machine Learning Techniques",International Conference on Innovations in Software Architecture and Computational Systems (ISACS - 2021) on 2-3 April, 2021 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

DEPARTMENT: ECE

International Journal

- **Ayushi Bhawal, Debaparna Dasgupta, Arka Ghosh, Koyena Mitra**, "Arduino Based Hand Gesture Control of Computer" International Journal of Engineering Science and Computing (IJESC), vol. 10, no. 6, 15th June 2020.
- **Jayita Pramanik, Poushali Paul, Sneha Baidya and Tias Ghosh,** "Controlling Railway Gates Using Automata Based Intelligent Controller", International Journal of Innovative Research in Technology (IJIRT), vol. 7, Issue 11, pp. 513- 518, 11th April 2021. ISSN: 2349-6002.
- **Adrija Kundu, Avirup Mondal , Ananya Biswas, Bikram Saha, Palabi Ghosh** , Smart Stick for Blind using IoT", in International Journal of Innovative Research in Technology.
- **Ayon Maji,Atanu kumar Bagh, Ankan Das**, Anurima Majumdar, Antara Ghosal, Palasri Dhar, Sunipa Roy, "PADMINI-An Intelligent Women Safety Device " in INTERNATIONAL RESEARCH JOURNAL OF SCIENCE ENGINEERING AND TECHNOLOGY.
- **Sayan Mondal , Sayan Majumder , Sayan Bhattacharjee, Satish Singh , Uddipan Chowdhury**, "Thermal Scanning & GPS Tracking System" in International Journal of Innovative Research in Technology.
- **Hridika Saha**", Ballistic and scattering limited mobility in GaN Single quantum well and Al0.25Ga0.75N/GaN superlattice MOSFET: A Comparative Study".IJCRT.
- **Soham Bhattacharya,Subhayan Moitra, Sufal Das**, Suparna Biswas, Sayan Roy Chaudhuri, Palasri Dhar, Dyuti Nandi,Sulata Pandit, "Designing of Automatic Car Parking System", International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653 ,VOL: 8,NOV 2020.(Google Scholar and UGC Approved.)

International Conference

- **Rohan Kumar Banerjee, Ankita sarkar,** Suparna Biswas, Palasri Dhar, Avali Banerjee, Sayan Roy Chowdhuri, "Real Time Object Detection using YOLO Algorithm", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2.0) -2021, Guru Nanak Institute of Technology, Kolkata, 28-29th January 2021. ISBN No: 978-93-5437-645-0
- **Sanchari Saha, Wriju Banerjee, Tathagata Bhattacharyya, Saswata Sundar Maity**, "Facial and Voice Recognition Based Security and Safety System in Car", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions),

Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020. Electronic ISBN: 978-1-7281-7016-9 DOI: 10.1109/ICRITO48877.2020.9197886.

- Avali Banerjee, **Sangeeta Rana, S. B. Amreen Saba, Samayita Chakraborty**, "Bionic Eye-A Review", IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020. Electronic ISBN: 978-1-7281-7016-9 DOI: 10.1109/ICRITO48877.2020.9197834

- **Wriju Banerjee, Sanchari Saha, Saswata Sundar Maity, Tathagata Bhattacharyya and Subhrajyoti Sadhu,** and Suparna Biswas "GPS Tracking, QR code Scanner Based Application to Help the Health Workers and Common Citizens during Covid-19", · Proc. of IOCER 2020 Conference, 8-9th October 2020, JISCE Kalyani.

- **Senjuti Mazumdar, Sangeeta Rana, S.B. Amreen Saba,** Suparna Biswas, Palasri Dhar and Sayan Roy Chaudhuri, "Face Detection based approach to combat with COVID-19", Proc. of IOCER 2020 Conference, 8-9th October 2020, JISCE Kalyani.

- **Piyal Bose, Arko Saha, Aritra Ghosal, Arjyama Seal, Bikram Paul** And Surajit Basak, "COVID FRONTLINER: A First Level Smart Health Assistant App & Website for Covid 19", 28-29th Jan., 2021, FEMAS 2.0-2021.

- **Ayusha Biswas,Arpan Bhawal,** Sayan Roy Chaudhuri, Suparna Biswas "AIR CONDITIONER SYSTEM CONTROL USING FUZZY LOGIC", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2.0) -2021, Guru Nanak Institute of Technology, Kolkata, 28-29th January 2021. ISBN No: 978-93-5437-645-0

DEPARTMENT: FT

International Journal

- **Rajdeep Chakraborty, Ayan Malakar, Parna Sarkar, "Organizing The Unorganized: An Overview of COVID-19 Impact On FMCG Sector and Indian Economy", International Journal of Application or Innovation in Engineering & Management**

(IJAIEM), DOI:10.26484 , ISSN:2319-4847, Volume: 9, Issue: 7, Pg: 62-69, July 2020. Thompson Reuters Researcher ID: N-6095-2015, **Scopus indexed**

- **Soumily Misra, Somdeepa Bhattacharya, Arnab Mukherjee and Arunaunsu Shee, "A Review on Utilization of Biosensors for Detection of Adulteration in Fish"**International Journal for Modern Trends in Science and Technology (IJMTST**),** Web of Science ResearcherID AAJ-4390-2020, Impact Factor-4.124 ***UGC Gazette Régulations (Journal Id: 43137)***ISSN: 2455-3778, 6(10):50-55, 2020.

- **Mariya Mukherjee, Pulak Deb, Akash Biswas, Riya Kumari Gope, Sweta Das, "Study On The Fortification Techniques Of Multiple Food Products Using Immunity Boosting Micronutrients And Antioxidants: A Literature Review"** , ***International Journal of Engineering Applied Sciences and Technology***, 5(6):163-169, ISSN No. 2455-2143, 2020, **Impact** Factor: 4.982, DOI: 10.33564, H-index: 6

- **Supriti Manna, Dabasmita Saha, Subham Roy Chowdhury, "Onion Productivity and Price Change Aspects in India: An Overview"**, International Journal for Modern Trends in Science and Technology (IJMTST) Web of Science Researcher ID AAJ-4390-2020. **Impact Factor- 4.124.** *UGC Gazette Régulations (Journal Id: 43137)*ISSN: 2455-3778, 6(10):118-122, 2020.

- **Debdatta Sarkar, Bisakha Saha, Arunima Singha "Overview of worldwide potato production scenario with special focus in India and its industrial utilization"**, International Journal for Modern Trends in Science and Technology (IJMTST). International Journal for Modern Trends in Science and Technology (IJMTST) Web of Science Researcher ID AAJ-4390-2020. **Impact Factor- 4.125.** *UGC Gazette Régulations (Journal Id: 43137)*ISSN: 2455-3778.

- **Srijeeta Saha, "A review on Anthocyanin Pigmentwith Respect to It's Nutraceutical Properties",** International Journal for Modern Trends in Science and Technology (IJMTST). International Journal for Modern Trends in Science and Technology (IJMTST) Web of Science Researcher ID AAJ-4390-2020. **Impact Factor- 4.125.** *UGC Gazette Régulations (Journal Id: 43137)*ISSN: 2455-3778,Volume 6, Issue 12, December 2020.

- **Avisikta Ghosh Dastidar, Swagatalakshmi Chakraborty**, "Entomophagy: A Future Feed Security System", International Journal for Modern Trends in Science and Technology (IJMTST).).

International Journal for Modern Trends in Science and Technology (IJMTST) Web of Science Researcher ID AAJ-4390-2020. Impact Factor- 4.125. UGC Gazette Régulations (Journal Id: 43137)ISSN: 2455-3778, Volume 6, Issue 12, December 2020.

- **Writtika Das, Sweta Das**, A Review on Cocoa Butter Alternatives in Chocolate Preparation, International Journal for Modern Trends in Science and Technology, impact factor: 4.175, DOI: https://doi.org/10.46501/IJMTST070130, Web of Science ResearcherID AAJ-4390-2020,UGC Journal ID: 43137, ISSN: 2455-3778, 7(01): 135-140, January, 2021,

- **Nibedita Chowdhury, Rupsa Sengupta, Saurjaynee Biswas, Deborima Bera**, Microbial Spoilage of Meat and It's Detection - A Review, International Journal of Modern Science and Technology, www.ijmst.co. ISSN: 2456-0235, 6(2-3):23-30. February, 2021.

- **Parag Chattopadhyay, Aditya Paul, Samridhya Paul, Sukanya Ray**, Detection Methods of Non-permitted Food Color, Metanil Yellow: A Review, International Journal for Modern Trends in Science and Technology, impact factor: 4.175,DOI:https://doi.org/10.46501/IJMTST0703033, http://www.ijmtst.com/vol7issue03.htm, Web of Science ResearcherID AAJ-4390-2020,UGC Journal ID: 43137, ISSN: 2455-3778, 7(03): 201-204, March, 2021.

- **Riya Kumari Gope**, Application Of Artificial Intelligence In Food Industry— A Review, Vol. 5, Issue 11, ISSN No. 2455-2143, Pages 145-152, 2021, IJEAST (http://www.ijeast.com), March 2021

- **Saurjaynee Biswas, Nibedita Chowdhur, Ishon Mollick, Deborima Bera, Sandip Kumar Karmakar,** Detection and Estimation of Metanil Yellow & Congo Red: Carcinogenic Food Colourants, Present in Different Food Samples, International Journal for Modern Trends in Science and Technology, ISSN: 2455-3778 online, DOI:https://doi.org/10.46501/IJMTST0705007, Available online at:http://www.ijmtst.com/vol7issue05.html, impact factor: 4.175, 7(05): 49-55, May, 2021.

- **Joyita Mallik, Neha Das, Keya Roy,** "An Overview Of Various Types Of Banana Production And Its Market Value In India", International Research Journal of Engineering and Technology (e-ISSN: 2395- 0056, p-ISSN: 2395-0072) Volume: 07, Issue: 12, Pg: 1195-1204, Available online DOI: https://irjet.net/volume7-issue12, December 2020, Thompson Reuters indexed.

- **Shalini Chanda, Shramana Sarkar, Sourini Sen, Swarnendu Ghosh,** "An Overview of Rice Productive Cultivation and Variety in India" International Research Journal of Engineering and Technology (e-ISSN: 2395- 0056, p-ISSN: 2395-0072) Volume: 07, Issue: 12, Pg: 1195-

1204, Available online DOI: https://irjet.net/volume7-issue12, December 2020, Thompson Reuters indexed.

- **Indrabati Bose, Ritam Ghosh, Madhurima Sarkar, Madhurima Kundu**, "Betel Leaf: The Ignored Green Gold", ADALYA JOURNAL (ISSN NO: 1301-2746), Web of Science group journal, Volume: 10, Issue: 4 Pg: 1-19, 2021, available online: DOI: https://doi.org/10.37896/aj10.4/001, April 2021

DEPARTMENT: EE

International Journal

- **Subharshi Roy, Debanjan Chatterjee**, "Cloud based Real-time Vibration and Temperature Monitoring System for Wind Turbine", AI and IOT in renewable energy, Publisher: Springer Nature, Singapore Series: Studies in Infrastructure and Control, 7th January, 2021. (Book Chapter) published by Springer Nature. https://www.springer.com/gp/book/9789811610103

International Conference

- **Rohan Sengupta, Sayak Chowdhury, Sarnendu Sarkar, Amartya Dutta Banik**, "Power Efficient Mini Inverter", International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS 2021), Guru Nanak Institute of Technology, Kolkata, 28-29th January.
- **Subharshi Roy, Debanjan Chatterjee, Bikram Das,** "Cloud-based Real-time Vibration and Temperature Monitoring System for Induction Motor, 3rd International Conference on Computational Advancement in Communication Circuit and System (ICCACCS 2020), Narula Institute of Technology, Kolkata 17th -19th December, 2020.

DEPARTMENT: IT

International Conference

- **Akash Gupt** "APPROXIMATECOMPUTING: ERROR TOLERANT ADDER" International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSASA 2020). Organized by JIS College of Engineering on 11th& 12th December 2020 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Sumit Choudhary,Subhra Sarkar** "A Low-Latency Scheme Using Real-time Constraints for V2V Communication in VANET"International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSASA 2020). Organized by JIS College of Engineering on 11th& 12th December 2020 (Proceedings will be published through Springer book series "Studies in Autonomic, Data-driven and Industrial Computing", Scopus Index).

- **Arkajyoti Chakraborty,** "Clustered Fault Repairing Architecture for 3D ICs Using Redundant TSV", First International Conference on Innovations in Software Architecture and Computational Systems (ISACS-2021) organized by Department of Computer Science & Engineering, Guru Nanak Institute of Technology, JIS Group, from 2nd -3rd April, 2021, Conference Proceedings will be published in **Springer Lecture Notes** in Networks and Systems

DEPARTMENT: AEIE

International Journal

- Shilpita Hazra, **Bapita Roy**, **Paramita Banerjee**, Sayani Dey, Sonali Das, "Non-Contact Estimation of Surface Roughness", Pramana Research Journal, UGC approved Journal, Volume 10, Issue 8, 2020, pp - 48-55. ISSN NO: 2249-2976, August-2020.

International Conference

- Biomedical data integration system by **Anirban Saha, Atreyee Das**, Bapita Roy, Paramita Banerjee, Mrinmoy Dutta, International Conference on Frontiers in Engineering, Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.
- WSN based smart air pollution monitoring system by **Shilpita Hazra, Sakya Mridha, Sampreet Dey,** Ms.Saswati Chatterjee, Ms.Bapita Roy, International Conference on Frontiers in Engineering,

Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.3. Design of economical & efficient solar power conversion system using buck boost converter by Sampreet Dey, Ms. Santana Das, Aishik Dutta, Avisek Bardhan, Joyshikhar Saha, International Conference on Frontiers in Engineering, Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.

- Smart energy meter by **AnirbanSaha, Subhajit Kr Hooi, Subha Deb, Atreyee Das** ,Suparna Maity, International Conference on Frontiers in Engineering, Management and Applied Science, (FEMAS 2021), ISBN No: 978-93-5437-645-0, 28-29 January 2021, Kolkata.

DEPARTMENT: ASH

National Conference

- Dr. Soma Mukherjee with **Cheryl Mukherjee, ShuvamPatra**,: "Solar Tree" in "3rd National Conference on Science, Technology and Communication Skills (NCSTCS 2K20)"from 25.09.2020 to 26.09.20 held in Dept.of Basic Science & Humanities, Narula Institute of Technology. Published in Proceedings of the conference by Ideal International E- publication Pvt. Ltd, ISBN: 978-93-89817-42-3, page 77

International Conference

- Dr. Soma Mukherjee with **Cheryl Mukherjee, Shuvam Patra**, Conference paper (NCSTCS 2K20) In press,2020

- Dr. Sucharita Bhattacharyya with **Anwesh Bhowmick**, Book Chapter (International) Revision Submitted (CRC Press),2020

- Dr. Sucharita Bhattacharyya with **Jatin Madan, Richa Sharma, & Hashmeet Kaur Pandher** , in ICESD 2021 during (27-28) February, 2021 , the paper entitled *Control in Global Warming : Role of Carbon Capture* (to be published)

- Dr. Sucharita Bhattacharyya with **Saptarshi Dey, Suparna Das, Ankita Basu, & Rupak Biswas** in ICESD 2021, during (27-28) February, 2021, the paper entitled *Wind hydro energy at remote Islands in southeast Asia - A case study of Andaman and Nicobar islands* (to be published)

- **Suchandrima Mukherjee**, Dr. Sreyasree Basu, Dr. Indrajit Bhattacharyya and Dr. Mainak Debnath, in ICESD 2021, during (27-28) February, 2021, the paper entitled "Bioplastics: A Remedy to make the World Plastic Free" (to be published).

- **Sukriti Dutta , Supriti Manna , Swarnendu Ghosh, Sweta Das**, Dr. Sreyasree Basu and Dr, Indrajit Bhattacharyya, in ICESD 2021, during (27-28) February, 2021, the paper entitled "Food Waste Management: An Environmental Concern" (to be published).

- **Sankhadeep Das, Anisha Roy,** Dr. Sreyasree Basu, Dr. Mainak Debnath and Mr. Chandan Kumar Bhattacharyya, in ICESD 2021, during (27-28) February, 2021, the paper entitled "Role of Spectroscopy in Polution Monitoring " (to be published).

- **Oindrila Mazumdar,** Dr. Sreyasree Basu and Dr. Mainak Debnath, in ICESD 2021, during (27-28) February, 2021, the paper entitled "Edible Food Packaging: a New way to Sustainability" (to be published).

- **Pratik Bandyopadhyaya, Soumyadeep ghosh, Shubhadeep Bhowmik, Sayak Chowdhury**, Dr. Indrajit Bhattacharyya and Mr. Chandan Kumar Bhattacharyya, in ICESD 2021, during (27-28) February, 2021, the paper entitled "E waste Management: An Environmental Concern" (to be published).

- Dr. Soma Mukherjee with **Shreya Dan, Arghadip Biswas, Sanlap Ghosh, and Adrija Saha**:"Renewable Energy:Physics involved & its prospect" in International Conference on Environment and sustainable development (ICESD-2021) from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT
- Dr. Soma Mukherjee with **Ritabrata Banerjee, Pratik Roy, Aditya Manna, Raunak Seal** and Soumi Patra: "Application of Physics for health care" in International Conference on Environment and sustainable development (ICESD-2021) from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT
- Dr. Soma Mukherjee with **Arnab Chowdhury, Artija Ganguly and Vaskar Paul**: "Physics in Medical World" in International Conference on Environment and sustainable development (ICESD-2021) from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT

- Dr. Soma Mukherjee with **Anushka Sarkar, Souvik Sarkar, Mriganka Banerjee** and Soumi Patra: "Materials for sustainable development" in International Conference on Environment and sustainable development (ICESD-2021) from 27to 28th Feb 2021 organised by Dept of ASHU & BHM, GNIT

2019-20

DEPARTMENT: FT

International Seminar / Conference

- **Purba Dutta, Anirzeet Pramanik (2019) "Comparison of Frying Stability of Vegetable Oil with and Without Adding Black Cumin Seeds**" Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019..
- **Ishon Mallick, Poulami Banerjee (2019) "Enhancement of Nutraceutical Characteristics Baked Products**" Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- **Piyali Bannerjee (2019) "Effect of Irradiation on Food: Review"**Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- **Ishon Mallick, Poulami Banerjee (2019) "Fortification of Ice Cream"**Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- **Mariya Mukherjee, Soumily Misra (2019) "A Review on Citrus Fruit Peels as Potential Source of Some Beneficial Nutrients"**Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- **Srijeeta Saha, Arunima Singha (2019) "IMF: Enhance The Self Life of Food"**Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.
- **Rajdeep Chakraborty, Ayan Malakar, (2019) "Role of Neuropsychology – affecting individual discretion in food selection"**Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Saurjaynee Biswas, Nibedita Chowdhury, Deborima Bera (2019) "Therapeutic Foods: A Solution for Malnutrition at a Low Cost"**Abstract Accepted and Presented in InternationalConference "FEMAS 2019" organized by GNIT, held on 26th and 27th September, 2019.

- **Ayushi Nandy, Pooja Shaw, Shalini Chanda,** (2020) **"A review on energy conversion from rice straw waste"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Srijeeta Saha , Sourini Sen, Sourav Das, (2020)"Food coloring: Improving of the Appearance of Food"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Ishon Mollick, Mariya Mukherjee, Soumily Misra, (2020)"Sesame Protein Isolates: Potential Sources of Nutrition"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Sayanan Sarkar, Somdeepa Bhattacharya, Neha Das, Poulami Das, (2020) "Application of Various Techniques for Meat Preservation"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Baidik Sinha Ray, Sayandeep Halder, (2020) "Effect of coffee on human Health"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Pritam Bar, (2020) "A review on cold plasma technology in food processing"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

- **Poulami Das, Neha Das, Somdeepa Bhattacharya, Sayanan Sarkar, (2020) "Review on utilization of pineapple waste"** Abstract Published and Presented in International**Conference ICORE 2020 (ISBN: 978-93-5396-201-2)** organized by GNIT in collaboration with SESI held on 7th and 8th February **.**

National Seminar / Conference

- **Prithweejit Bhattacharyya, Lopamudra Banerjee, Pallabi Pal, Shatargha Das Mazumder(2020)** "Preparation of Papaya Leaf Extract Fortified Whey Based Beverage" Abstract Published and Presented

in National Seminar National Agriculture Higher Education Project organized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology, W.B.U.A.F.S.,Feb,2020

- **Pulak Deb (2020) "Introduction of Stevia in Dairy Product"** Abstract Published and Presented in **National Seminar National Agriculture Higher Education Project** organized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- Mariya Mukherjee, Sukriti Dutta, Soumily Misra, Sourini Sen (2020) "Fruit Fortified Shrikhand" Abstract Published and Presentedin **National Seminar National Agriculture Higher Education Project** organized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Baidik Sinha Ray Priti Sarkar, Pritam Bar (2020) "Development of Bacteriocin Based Anti-Microbial Packaging (AMP) System For Enhanced Food Safety"** Abstract Published and Presented in **National Seminar National Agriculture Higher Education Project** organized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Anindya Dhar Poulami Chakraborty(2020) "A Review on the Impact of Genetic Selection for Increased Milk Yield"** Abstract Published and Presented in **National Seminar National Agriculture Higher Education Project** organized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

- **Srijeeta Saha(2020) "Nutritional Composition of Plant Milk Soybean"**Abstract Published and Presented in **National Seminar National Agriculture Higher Education Project** organized by National Agricultural Higher Education Project (NAHEP) Innovation Grant , Faculty of Dairy Technology , W.B.U.A.F.S.

International Journal

- **Anindya Dhar & Poulami Chakraborty"**A review on extraction of glucose from rice" *The Pharma Innovation Journal,* 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

- **Anirzeet Pramanik & Purba Dutta** "A Review on Microbial-Pigment: A Good Source of Biocolour" *The Pharma Innovation Journal*, 2019; 8(5): 397-398, ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

- **Arnab Saha "A Review on Mushroom: A Cancer Antidote** *Journal of Emerging Technologies and Innovative Research* **6(12):764-774 (2019),(ISSN-2349-5162)** Impact Factor-5.87

- **Ishon Mollick,"Fortifications in Ice-cream with enhanced functional properties: A Review",**International Journal for Modern Trends in Science and Technology ISSN: 2455-3778, 6(May): 2020Web of Science,ResearcherID AAJ-4390-2020, impact factor: 3.320, Elsevier Indexed.

- **Prithweejit Bhattacharyya, Lopamudra Banerjee**"Hibiscus Petal, Fortified Fruit Juice- A Health Drink.", International journal of Creative Research Thought, 2020; 8(4) 2020, ISSN: 2320-2882, Impact factor: 7.9

- **Riya Dasgupta**, "Development and Characterization of Biocolour Fortified Yogurt: A New Pathway towards Functional Foods", International Journal of Engineering Trends and Technology (IJETT), 68(4):1-6,(2020) ISSN: 2231-5381. Impact Factor: 2.88, doi:10.14445/22315381/IJETT-V68I4P201S SCOPUS indexed.

- **Prithweejit Bhattacharyya**,"Study of Combined Action of Papaya Leaf Extract, Pomegranate and Lemon"- A Review, International Journal for Modern Trends in Science and Technology ISSN: 2455-3778, 6(May):67-71, 2020, Web of Science ResearcherID AAJ-4390-2020, impact factor: 3.320, Elsevier Indexed.

DEPARTMENT: AEIE

International Conference

- **Oindrila Ghatak, Hiya Mandal, Monojit Mondal, Gurpreet Kaur**, Sunipa Roy, Paramita Banerjee, "Effect of Stacked Membrane in MEMS based Microheater Structure for Electronic Nose Application" FEMAS 2019, September 26-27 at GNIT, Kolkata, India.

- **Sudip Kuila, Sanghamitra Layek , Swagat Das ,Tamasha Paul,Souvik Das "Assessment of diabetes through Exhalation"** ICORE 2020, February 6-7 at GNIT, Kolkata, India.

- **Bapita Roy, Paramita Banerjee, Sayani Dey, Shilpita Hazra, Sonali Das "Development of Non-Contact Type Surface Roughness Measurement System"** ICFTTAE 2020 at NIT, Kolkata, India.

- **Sudip Kuila, Surajit Bagchi "Noninvasive Assesment of Diaberies Mellitus"** ICFTTAE 2020 at NIT, Kolkata, India.

DEPARTMENT: CSE

International Conference

- **Sandip Kumar Karmakar,Poulomi Kumar,Prothit Das,Joydeep Mukherjee,"IOT Based Microcontroller operated Noise management with efficient Power consumption Strategy in a Smart Library System"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019),ISBN No: 978-93-5391-015-0,26-27th Sep,2019.

- **Srijit Pal, Pritimoy Sarkar, Udayaditya Sasmal, Saswata Mukhopadhyay**, Sayani Chandra, **"HuMoTS: Microcontroller based Humidity Monitoring and Transmission System"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26th - 27th Sept, 2019.

- **Bikramjit Das, " IOT Based Quad-Copter for Sowing Seed, Sprinkling Fertilizer and identifying Suitable Crop in a Farming Land by Soil analysis and Weather Prediction"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0,26-27th Sep,2019.

- **Yogesh Singh, Utattha Banerjee, Snigdha Mazumdar, "Human Motion Detection with Activity Tracking using OpenPose and modified Optical Flow"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Prafull Kumar, Priyam Halder, Rupak Dey, Sampriti Ghosh,"MiDoLS: A Microcontroller based Door Lock System"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay**,**"Implementation of Voice Controlled Robot using Arduino: A Novel Approach",** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Debleena Dutta**,**"HFRS: A Microcontroller based Human Face Recognition System"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Ankita Adhikary, Amlan Dutta,"Smart Home Automation based on sensors and Microcontroller"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Pritam Saha, Partha Pratim Dey, Pronoy Dewanjee,"An Approach to Next Generation Lighting Method Using IoT and Gesture"** published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Soumili Ganguly, Suparna Hazra, Swagata Sen, Tapanova Khanra**," Comparative Study of different Machine Learning Algorithms for Heart Disease Prediction" published in International Conference on Frontiers in Engineering, Management and Applied Science 2019 (FEMAS-2019), ISBN No: 978-93-5391-015-0, 26-27th Sep, 2019.

- **Sourish Mitra, Sandip Kumar Shaw, Sandip Karmakar, Bidyutmala Saha, Rafiqul Islam, Santanu Kumar Sen**,"IOT based Mobile controlled ORC (Orthospinal roundback Curveture)-Kyphosis detection and measurement technique of Human spine" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Amrut Ranjan Jena, Mandira Banik, Sumit Banerjee, Anumita Das,**"WORDPRO, an Open Source Smart Word Processing Tool using Web technology and Android" published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Srabani Kundu,** "**Micro Controller Based Automated Traffic Monitoring System"** published in International Conference on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Amrut Ranjan Jena,"**A Fuzzy Graph Recurrent Neural Network Approach for the Prediction of Radial Overcut in Electro Discharge Machining" published in International Conference **ICADCML 2020** (Springer Conference Proceeding with Scopus indexing) 30-31st January,2020

- **Mandira Banik,Subhadeep Saha,Sourav Basak, Subhrajit Roy,Suman Roy Choudhury,"Self Driving Car using Raspberry Pi"** published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Pallabi Das,Nirupam Saha,Bishal Kumar Shaw, Bishal Lama, Sameema Nasrin, Rajveer Singh,"IoT Based Remote Monitoring System of Pregnant Women in Rural Area"** published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Dr. Sangeeta Bhattacharyya, Bikramjit Das, Biplab Roy, Debanjana Ghosh,Ankita Adhikari, Diganta Das, "**DHaP: A Novel Neural Network based Digitization of Handwritten Prescription", published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Subhadeep Saha, Mandira Banik, Sourav Basak, Subhrajit Roy, Suman Roy Choudhury,"Smart Home Automation based on Sensors and Microcontroller"** published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Ipsita Saha,Yogesh Singh, Saswata Mukhopadhyay, "Processors for sustainability: An analysis of modern processors for power efficient IoT uses."** published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

- **Moloy Dhar,Jhumpa Das, Disha Gaine, Durba Dey,"Human Activity Recognition"** published in International Conference on Renewable Energy,2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8TH Feb, 2020.

International Journal

- **Sandip Kumar Karmakar, Sandip Shaw**, Sourish Mitra, "Iot Based Finger-Print-Scanning-Biometric-Panel With Advanced Infra-Thermal-Scanning Strategy Comprising Of Automated Sanitizer-Spraying-Disinfectant-Gateway-Tunnel" published in international Journal International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, ISSN and UGC Approved, 5.75 Impact factor.

- **Rohan Chakroborty, Subhajit Sanyal**, Pallabi Das, "IoT based Thermal Signature Detector with Alarm & E-mail Notification with Integrated Social Gathering Screening using Computer Vision" published in The International Journal of Emerging Technology and Advanced Engineering-ISSN 2250–2459, Volume 10, Issue 4, pp-164-171,April 2020 UGC Approved, Impact Factor of 6.351.

- **Biplab Roy, Aindrilla Majumder, Neela Chattopadhyay**, Moloy Dhar, Amrut Ranjan Jena, Mandira Banik "Implementation of Voice Controlled Robot using Arduino: A Novel Approach" published in International Journal of Emerging Technology and Advanced Engineering (ISSN 2250–2459(Online), An ISO 9001:2008 Certified Journal),Volume 10, Issue 04, April, 2020.

- **Sourish Mitra, Ashesh Roy Choudhuri, Neela Chattopadhyay, Arshi Raina, Srijit Pal,"**Iot Based Quad-Copter With Seed Sowing- Fertilizer Sprinkling- Suitable Crop Identification Strategy By Predicting Weather And Analyzing Soil: A Combo Solution Of Farming Land" published on INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS(IJRAR) at Volume 7 Issue 1 , E-ISSN 2348-1269, P- ISSN 2349-5138,Date of Publication: February 2020(UGC Approved (Journal No : 43602) & 5.75 Impact Factor)

- **Subhaditya Banerji, Soumyajeet Kabi, Rohan Chakraborty**, Moloy Dhar, Amrut Ranjan Jena "A SMART SEWAGE CLEANING SYSTEM USING INTERNET OF THINGS" Published in International Journal of Research and Analytical Reviews (IJRAR) at Volume 7 Issue 2 , E-ISSN 2348-1269, P- ISSN 2349-5138, Date of Publication:June 2020(UGC Approved (Journal No : 43602) & 5.75 Impact Factor)

DEPARTMENT: IT

International Conference

- **Pradipta Karmakar "Discrimination of Text and Non-Text Image"**International Conference on Emerging Trends in Electro-Mechanical Technologies and Management (TEMT-2019), 24-27 July, 2019. Proceedings in Springer, Indexes by Scopus.

- **Puja Mukherjee, Niladri Sen, Sandipan Kar,"Visual Cryptography for Online Certificate Authentication".**Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September,2019.

- **Arkajyoti Chakraborty, "Repairing of functional TSVs using Redundant TSVs".**Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.

- **Monishankar Nath, Arnab Banerjee, Prithwish Das "Congestion Control Approach by Controlling Number of Messages Dynamically and by Sharing the."**Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.

- **Rizwi Salim, Kumarika Mukherjee, "Text detection from camera captured image"**Frontiers in Engineering, Management and Applied Science (FEMAS-2019) 26-27 September, 2019.

DEPARTMENT: EE

- **Romika Saha,Rishab Halder, Roney Banerjee, Souradeep Bhattacharjee, "Single phase transformerless grid connected solar PV system with auto-synchroniser",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Moumi Roy Chowdhury, Ms.Koyena Majumdar, Mr.Bishal Manna, Mr.Debnil Majumdar, Mr.Arnab Podder, "Arduino Based Parking Lot",**published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Ramanuj Bhowmick, Arijit Das, Meghna Sengupta, Subhodeep Sarkar, "Solar cooker (Box type)",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Swaraj Sharma, Rakesh Kumar, Shahbaz Khan, Suvronil Jana, Tushar Kumar ,"Solar Car",**published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **TanushreeChatterjee, "Adaptive Protection Schemes for Wide Area Network: A Review",**published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Arghyadip Chakraborty, Sudipta Mahanti, Suman Mishra, Nilanjan Naha, Swarna Kiran Mallik, "Advance Railway Signaling & Crossing System Using Scada",**published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Santanu Das, PratipBera, Pritam Khanra, Prantic Sen, Sandeep Mondal, "Low Cost Fingerprint Based Electronic Voting Machine",** published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Saif Ali, Sayoni Ghosh, Sayantan Saha, "Laboratory Prototype of a Smart Solar Air Cooler",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Kinkini Adhikari, Ankita Bhowmick, Debjit Sarkar, "Neural Protective Relay",** published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Anirban Chandra, Nilabha Roy, Taniya Roy, "Static series compensator and static transfer switch for voltage dip mitigation with short interruptions",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Subhojyoti Roy, SubhranilGhosh, SouravGhosh, Sourodeep Sett, "Automatic Street Lights Control Using LDR",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Ashish Gupta, ShuvamPatra, ShubhroKundu, SousamKar, SubhojitGhosh, "Bionic Glove: Universal Remote rehabilitation of the paralytics",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **AmitAgarwal, Anshumita Banerjee, AnkitaSinha, AnkitaBiswas,AbijitSamanta, "Green House And Modern Gardening Technique",**published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **PoushaliGope, SharmistaGuha, SumanSarkar, RakeshBiswas, Rahul Singh, "Blood vessel segmentation of fundus images using image processing",**published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Rahul Mukherjee, SupalShee, Sougata Seth, Soumodeep Paul, "Automatic room light controller using Microcontroller and visitors counter",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Sudip Das, Alia Hussain, Arunava Banerjee, Ayan Kumar Karar "Automatic home lighting solution using human detection, sunlight intensity & room temperature sensor",**published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **SubhajitDutta, Sourav Das, AnirbanBera, SoumyaDhang, NayanHazra, "Flame Seeker and Extinguishing Robot",** published in International Congress On Renewable Energy, 2020 (ICORE 2020), ISBN No: 978935396-201-2, 7-8th Feb 2020.

- **Subharshi Roy, Bikram Das, DebanjanChatterjee, SoudipMaji and SoumikMandal published "Wireless Transmission of Energy from Floating Microgrids to Electric Ships by High Powered Inductive Charging Method"** published in International Congress on Renewable Energy, 2020 (ICORE 2020), ISBN Number : 978935396-201-2, 7-8 FEBRUARY 2020.

- **ArpanMondal, Ayush Kumar Giri, Saumyadeep Bhattacharyya, Debadrita Paul, Sanchayan Banerjee, "Development of a Low Cost Automated Fire Fighting Robot",** published in Forum of Scientists, Engineers & Technologists (FOSET 2020), 11th Inter University Engineering, Science &Technology Academic Meet – 2020 & Innovative Model Competition for a Sustainable Society, 15thMarch 2020.

DEPARTMENT: ECE

National Conference

- **Arindam De, Achyut Pal, AnkitaSwarnakar, HridikaSaha, "Smart Irrigation System With Sun Tracking Solar Panel",**11th Inter University Engineering, Science & Technology Academic Meet 2020 & Innovative Model Competition For A Sustainable Society, Forum Of Scientists, Engineers & Technologists **(FOSET)**,15th March, 2020

International Conference

- ***Md. Rahbar Hussain, Amrita Banerjee*** **" Low Threshold Voltage AlGaAs/GaAs High Electron Mobility Transistor and AlGaN/GaN High Electron Mobility Transistor:** A comparative Study", International Conference -Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.

- **Md.Azhar Hussian " Programmable Wireless Based Telerobotics Surgery with heartbeat measurements and blood pressure and blood sugar measurements",** International Conference - Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0,26-27 September, 2019.

- **Aprajita Bhagat,Arijeet Saha, Apurba Samanta, Eepsita Das, Antara Ghosh,Swagata Bhattacharya, , " Automated Greenhouse Controller",** International Conference -Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, 26-27 September, 2019.

- **Shinjini Saha, Sanchari Saha, Senjuti Mazumdar, Taniya Mitra "All-in-one Self Defense Device for Women",** International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

- **Suman Mallick, Udita Pal, Torsa Mukherjee, Sreyashi Biswas and Tejpal Singh, "AI Based Health Care System for 24x7 Monitoring of Patients using IOT",** International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

- **Santanu Saha, Shobhandeb Paul and Suvashish Paul, "Smart Baby Monitoring System using IOT",** International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

- **Oindrila Ghatak, Hiya Mandal, Monojit Mondal,Gurpreet Kaur, "Effect of Stacked Membrane in MEMS based Microheater Structure for Electronic Nose Application"** International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

- **S.Sarkar, S.Moitra ,S.Ghosh ,S. Bhattacharya ,S.Chakraborty ,S.Das ,S.Chowdhury, S.Dawn, S.Dutta, "A Solar backed up innovative Inverter" ,** International Conference on Frontiers in Engineering, Management and Applied Science , Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6

- **Abhinanda Mitra, Asmita Chakraborty "A Review of PCA Based Face Recognition Methods", International Conference -Frontiers in Engineering, Management and Applied Science - 2019,** Guru Nanak Institute of Technology, Kolkata, 26th - 27th September 2019. ISBN No: 978-1-5386-1484-6.

- **Subham Chakraborty,Sayan Chowdhury, Soumadip Das ,Sayansri Ghosh,Rimona Dutta, "Vehicle Pressure Limiting Bridge Model", International Conference** -Frontiers in Engineering, Management and Applied Science - 2019, ISBN No: 978-93-5391-015-0, Kolkata, 26th - 27th September 2019.

- **Sanchari Saha, Wriju Banerjee, Tathagata Bhattacharyya, Saswata Sundar Maity, " Facial and Voice Recognition Based Security and Safety System in Car",** IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Amity University, Noida, 4th - 5th June, 2020

- **Sangeeta Rana, S. B. Amreen Saba, Samayita Chakraborty, "Bionic Eye-A Review"**, IEEE 8th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO'2020) (Trends and Future Directions), Technically Co-Sponsored by IEEE UP Section (India), Am;ity University, Noida, 4th - 5th June, 2020.

- **Rounak Ghosh, Taniya Mitra, Srinjan Majhi, Swrnila Nath, "Perovskite Solar Cells - A Review",** International Congress on Renewable Energy (ICORE-2020), Guru Nanak Institute of Technology, Kolkata, 7th - 8th February, 2020.

- **S. Bhattacherjee, R. Majumder, S.Roy, Hrithika Saha**, "Performance analysis of heterogeneous dilectric TFET" International Conference on Applications of Networks, Sensors and Autonomous Systems Analytics (ICANSASA 2020), 11th & 12th December, 2020, JISCE Kalyani.

National Conference

- **Debasis Saha, Ram Krishna Mondal,**"Automatic Compact Sanitization And Cleaning Machine", SAMATVA 2020, Guru Nanak Institute of Technology, Kolkata, 16th - 18th October, 2020.

DEPARTMENT: ASH

International Conference

- **Tanusri Chatterjee, Rajdeep Dutta, Anjan Mandal,Soumyajeet Kabi**, "Resource Utilization in a Ferro Alloy Plant", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

- T**anusri Chatterjee, Rajdeep Dutta, Anjan Mandal, Agniv Sen**, "Analysis of Turbulence Modelling & Simulation of Cutting Fluid Flow through a Sudden Contraction Nozzle", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

- **Sukriti Dutta and Sourini Sen**, "Frontier Roles of Antioxidants against Human Health Hazards: A Review", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

- **Sourav Pal, Sourav Paul,** "Analyzing Drinking Water Quality Index in different Districts of West Bengal: A Survey", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

- **Utsav Patra,** "Secret Searing Scheme (t,n) for Efficient Task Management with Revocation in Crowdsourcing", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

- **Shuvam Patra, Sourav Paul,Monisankar Ghosh, Sourav Pal,** "Li-Fi(Light Fidelity) Technology for modern communication system", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

- **Sayak Mukherjee, Pritam Kundu,** "Green Engineering & Nuclear Energy: The Status of India", International Conference FEMAS 2019 Proceedings, September 2019. ISSN: 978-93-5391-015-0

- **Smriti Dutt, Shuvam Patra,** "Waste water and water treatment for environmental sustainability", National Conference on Environmental Sustainability, Water resource and Management(ESWRM 2019)

- Yash Raj, ShreyashreeSarkar, SandharbKamble, "Waste to Wealth: Indian Scenario", ICORE 2020, February 2020.

2018-19

DEPARTMENT: FT

National Seminar / Conference

- **Reema Ghosh, Prankur Thakur (2018)**. "Insect as Food" Abstract published in Seminar proceedings of National Seminar on "Recent Innovations in Food and Nutritional Sciences" Organized by Department of Nutrition Mugberia Gangadhar Mahavidyalaya In collaboration with Internal Quality Assurance Cell, Mugberia Gangadhar Mahavidyalaya, held on 31st August, 2018.

- **Sramana Roy,Prithweejit Bhattacharyya (2019),** "Preparation of Ber Jam", Abstract published in Seminar proceedings of National Seminar on "**12th all India Peoples' Technology Congress"** organized by FOSET, held on 17th Feb, 2019.

- **Debadri Bhowmick, Amit Saha, Khushi Maheshwari, Akash Kusum Maiti (2019)**, "Banana Pseudo Stem – An Unexplored Possibility", Abstract published in Seminar proceedings of National Seminar on "**12th all India Peoples' Technology Congress"** organized by FOSET, held on 17th Feb, 2019.

- **Ankita Bishnu,Ayanwita Saha (2019),** "Migration of Toxic Chemicals Compounds in Food Form Packaging Material" Abstract published in Seminar proceedings of National Seminar on "**12th all India Peoples' Technology Congress"** organized by FOSET, held on 17th Feb, 2019.

- **Debalina Biswas, Sourakhita Sarkar (2019),** "Production of Dietary Fiber from Fruit Waste" Abstract published in Seminar proceedings of National Seminar on "**12th all India Peoples' Technology Congress"** organized by FOSET, held on 17th Feb, 2019.

- **Shreya Biswas, Lopamudra Banerjee (2019),** "Vegetable Skin Powder – Utilization of Nutritional Active Vegetable Leftovers" Abstract published in Seminar proceedings of National Seminar on "**12th all India Peoples' Technology Congress"** organized by FOSET, held on 17th Feb, 2019.

International Journal

- **Ms. Riya Dasgupta,** "Development and characterization of Biocolor (Brassica oleracea var. capitata f.rubra) fortified lime squash"**, The Pharma Innovation Journal**, ISSN (E):2277- 7695 (2018), ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Rupsa Roychowdhury** "A Relative Study on Utilisation of Fenugreek Seeds For Enhancement of the Antioxidant Activities in Various Baked Product"**, International Journal of Agriculture & Environmental Science,** ISSN 2394 – 2568 (2019), Impact Factor 1.47.

- **Anusree Modak,** Studies on Extraction of Polyphenols from Food Wastes and Its Utilization for Fortification of Polyphenols, ,***International Journal Of Agricultural Engineering***, **11(1):216-219 (2018)ISSN (E): 0976-7223, ISSN (P): 0974-2662, NAAS Rating 4.43.**

- **Debarati Bhattacharyya** ,"**Analysis and study on the antioxidant of citrus fruits"**, *The Pharma Innovation Journal,* **2019; 8(5): 397-398,** ISSN (P): 2349-8242, NAAS Rating 5.03, Impact Factor 5.98, ICV:82.77. Peer Reviewed Journal, Refereed Journal, Indexed Journal.

DEPARTMENT: CSE

National Seminar/Conference

- Srotoswini Chanda, Sukanya Rakshit, Subham Banerjee, Moloy Dhar**,"Implementation of Driverless Pod Using Voice Commands"** published in National conference, FOSET, NSHM KNOWLEDGE CAMPUS, 124 B.L. Saha Road, Kolkata – 700053,31ST MARCH, 2019.

- Jacky Kumar Shaw, Anuja Mukherjee, Dibas Das, Ipsita Saha**"A sustainable Solution towards E-waste Recycling",**published on International Society of Waste Management, Air and Water Consortium of Researchers in International Colaboration(ISWMAW), 20 th April, 2019,IEM Kolkata.

International Seminar/Conference

- Sukanya Rakshit,**"Smart Mirror-a Secured Application of Artificial Intelligence Recognizing Human Face and Voice"**,International Conference IEEE(IEMCON), October, 2018.

- Pritam Roy, Jui Saha, Nikkon Dutta,**"Microcontroller Based Automated Room Light & Fan controller"**,International Conference(EDCT-2018) IEEE Explore,ISBN:978-1-5386-1484-6,doi: 10.1109/ EDCT.2018.8405097,September-2018

- Ipsita Saha**,"Implementing Extended Producer Responsibility into the ERP model"**pp. 1-5, IEEE Explore, ISBN:978-1-5386-1484-6, doi: 10.1109/ EDCT.2018. 8405097, September-2018.

- Swastik Bhattacharya, Srotoswini Chanda, Moloy Dhar**," Design of Driverless Pod Using Voice Commands : A Novel Approach"**, published in ICEECC-2019, Pailan College of Management & Technology, April 26-27, 2019.

International Journal

- Sandip Kumar Karmakar, Poulomi Kumar, Prothit Das, Rinki Dutta, Suman Roy Choudhury, "**A Microcontroller Operated LASER based Railway Gate and Signal Controlling System with Efficient Accident Prevention Strategy via IP-Webcam related Video-Surveillancing"** published on International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 6.887 Volume 7, Thompson Reuters indexed, UGC recognized, Issue IV, Apr 2019.

- Surajit Das, Rajib Bhowmik, Sanjay Dey, Shiladitya Saha,Sourish Mitra,Sayani Chandra,Pallabi Das,Ipsita Saha"**Bluetooth Controlled Farming Machine using Arduino**"published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,pp-2262-2269
April,2019.

- Prithwish Roy, Puja Mandol, Rajaditya Pramanik,RupakBhowmik, Samarpita Bhowmick,Sayani Chandra, Sourish Mitra,Pallabi Das,"**Microcontroller based Fire Extinguisher with Bluetooth operated LPG Gas Leakage Detection and Prevention System**",published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019.

- **Tuhina Basu**, "**A Wireless Framework for Emergency Health Care System**"published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887, ISRA Journal Impact Factor: 4.895, ISSN-2321-9653,April,2019.

- **Subhasis Thakur,Subhashis Thakur,Sourav Nandy,Sujoy Maikap,Sudeshna Ghosh,Souvik Sur,** "**Bluetooth Based Microcontroller Operated Baby Bed Security System with IP Webcam Video Monitoring**" published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019.

- **Anindita Ghosh, Debolina Mukherjee, Deepjyoti Das, Manisha Chakraborty,**"**Colour based Product Organization Tool using Arduino**" published in International Jpurnal-IJRASET,Thomson Reuter Researcher ID: N-9681- 2016 ,Scientific Journal Impact Factor: 6.887,ISRA Journal Impact Factor: 4.895,ISSN-,2321-9653,April,2019

DEPATMENT: IT

International Conference

- **Mitu Maity, Ayantika Sarbajna, "**Activity Oriented Petri Net Model Based Realization of Airport Apron Traffic Dynamics Modelling"; International Conference on Electrical, Electronics,Computer Science & Civil Engineering (ICEECC-2019) April 26-27 , 2019 .

- **Ipsita Bera, Indrani Dey,**"Monitoring Suspicious Discussions on Social Media Case Study"; International Conference on Electrical, Electronics, Computer Science & Civil Engineering (ICEECC-2019) April 26-27, 2019.

- **Pradipta Karmakar, Sayantan Jana, Sayak Dasgupta, Subham Paul, Rimpi Das and Saptaparna Das** "Matrix Method for Distinction between Text and Non-text images" International Conference on

Electrical, Electronics,Computer Science & Civil Engineering (ICEECC-2019), April 26-27.2019. Kolkata.

- **IpsitaBera, Indrani Dey** "**Market basket analysis-A formal approach"**, International Conference on Electrical, Electronics,Computer Science & Civil Engineering (ICEECC-2019), April 26-27.2019. Kolkata.

International Journal

- **Pradipta Karmakar, Sayak Dasgupta, Saptaparna Das**. **"Distinction between text and non-text using Ensemble classifier."**International Journal of Computer Science and Engineering (ISSN: 2347-2693) Vol. 7, issue 5, May 2019.

- **Pradipta Karmakar, Sayak Dasgupta, "Mean Average Accuracy for text and non-text images using SVM classifier."** International Journal of Computer Science and Engineering (ISSN: 2347-2693) Vol. 7, issue 5, May 2019.

- **Niraj PandeY**, **"TSV based 3D-SIC Testing"** International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1403-1406 Volume-5, Issue-3 ,June, 2019.

- **Monishankar Nath, "Hybrid routing protocol in Vehicular Ad-hoc Network,"** International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1385-1387 Volume-5, Issue-3, June, 2019.

- **Rohan Rajak** "International Journal of Scientific and Engineering Research (IJSER)" (ISSN-2229-5518) Volume 10, Issue 6, June 2019 .

- **Indrani Dey,** Tridib Chakraborty, Trishita Ghosh, Chowdhury Md Mizan "**Intelligent Chatbot Using Machine Learning**" Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) (ISSN:2454-132X) Page -1285-1288 Volume-5, Issue-3 ,June, 2019.

DEPARTMENT: EE

National Seminar/Conference

- **Sneha Sarkar, Sayoni Ghosh , Sayantan Saha**,"Development of a low cost IOT sensors suite framework for remote sensing applications", 10th Academic Meet 2019 organised by FOSET on 31st March, 2019.

- **Sanjib Kumar Samanta, Roudri Samanta, Nilotpal Chakraborty, Neelakshi Ganguly and Aishik Panigrahi** ,"A Computational approach to broad Cardiac disorders in the light of Ayurveda" presented at FOSET, NSHM campus, 10th academic meet 2019.

International Conference

- **Sailesh Verma, Aniruddha Ghosh**, "Analysis of time delayed nonlinear equations using HF functions" 19th-21st July, 2018 presented at International Conference on Mathematical Modelling and Scientific computing(ICMMSC 2018at IIT Indore).

- **Tathagata Roy Chowdhury, Suman Kumar Ghosh, Aishik Panigrahi, Nilotpal Chakraborty and Anirudhha Ghosh,** "Unidentified input observer: comparative study through Block pulse function and Hybrid function" presented at CIPR-2019, IIEST Shibpur on 19-20 Jan.

- **Nilotpal Chakraborty, Neelakshi Ganguly**,"Solving Stochastic Differential equations by Hybrid Functions" presented at MSAST 2018, Indismart Hotel, Saltlake on 21-23 Dec 2018.

2017-18

DEPARTMENT: FT

International Seminar / Conference

- **Riya Dasgupta (2018)** "Application of optical sensors in determination of light absorbent of purple cabbage fortified lime squash"- Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

National Seminar / Conference

- **Riya Dasgupta, Rupsa Roychowdhury** (2017). Banana Peel Muffin: A great way of waste utilization, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Pritika Prasad,**(2017), **Prostuti Chakravorty** Processing of Jackfruit seed flour, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Urmi Sarkar, Aurik Bairagi.** (2017). Qualitative analysis of Coffee Yoghurt, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Prostuti Chakravorty**, **Pritika Prasad.** (2017). Preparation and Characterization of Fortified Yogurt, Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Rupsa Roychoudhury, Riya Dasgupta** (2017)"Utilization of Whey Protein to Enhance The Nutritional Quality of Biscuit"-Abstract published in Seminar proceedings of National Seminar on "A Dairy Snapshot-2017" Organized by IDA (EZ), Kolkata in association with Faculty of Dairy Technology, WBUAFS, Nadia, held on 5th August, 2017.

- **Suparna Mukherjee, Srijanee Biswas (2017)** "Anthocyanins: Sources, Application, antioxidant activity and its role as biocolor"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Akash Kusum Maity, Khushi Maheshwari (2017)** "Freeze dried Jamun Powder fortified lassi: Source of nutracuticals"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Amit Saha, Debadri Bhowmick (2017) "**Quercetin Fortified Skimmed Milk**"-** Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Reema Ghosh, Prithweejit Bhattacharyya and Prankur Thakur (2017)**"Nutraceuticals- The pharmaceutical super foods"- Abstract published in Seminar proceedings of National Seminar on

"Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Pritika Prasad and Soumyadeb Bhattacharyya (2017)**"Nutraceutical Analysis of Jackfruit Seeds"- Abstract published in Seminar proceedings of National Seminar on "Clinical Research in Recent Pharmaceutical Sciences" Organized by Clinical Research Centre (CRC) Jadavpur University, Department of Pharmaceutical Technology in collaboration with Indian Pharmacy Graduates' Association (Bengal Branch), held on 22nd November, 2017.

- **Nilanjana dey & Ankita dutta (2018) "**Applications of industrial tea waste**"-** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

- **Srijanee Biswas & Suparna Mukherjee (2018) "**Oxidative Stability of Vegetable Oils during Frying**"** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

- **Suravi Chakraborty, Chandralekha Bhowmik (2018) "**Fenugreek seed: an oxidative stability enhancer of soybean Oil during frying**"-** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

- **Neha Jaiswal & Aurik Bairagi (2018) "**A safer pathway to preserve fish-no more formaldehyde**"-** Abstract published in national Conference on "9th Inter university engineering, science & technology academic meet – 2018 & innovative model competition for a sustainable society" organized by FOSET. Held on 25th March, 2018.

Interational Journal

- **Shramana Bhattacharyya, and Sreemoyee Moitra**, Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Reviewand *International Journal of Engineering Research and Science & Technology*, 6(1): 114-125, (2017) ISSN 2319 – 5991, Impact Factor:1.09.

- **Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee**,Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development: A Review,Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee and, *International Journal of Engineering Research and Science & Technology*, 6(1):137-148, (2017), ISSN 2319 – 5991, Impact Factor:1.09.

- **Bornini Banerjee and Shubham Mukherjee**,Banana peel wastes: potential source of antioxidant in banana chips, *International Journal of Agricultural Science and Research (IJASR)*, 7(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; Impact Factor (JCC): 4.8136; NAAS Rating: 4.13; IBI Factor: 3.2

- **Urmi Sarkar and Shreosi Das,**Evaluation of Rheological, Physicochemical and Sensory Properties of low Calorie Coffee Yogurt *The Pharma Innovation Journal*, 6(7): 106-109 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Bornini Banerjee and Shubham Mukherjee**,Potential of raw banana peel as a source of polyphenol in muffins*The Pharma Innovation Journal*, 6(10): 40-43 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Suravi Chakraborty**,Change in physicochemical properties of edible oil during frying: A review, *The Pharma Innovation Journal*, 6(10): 196-199 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Riya Dasgupta,Abhijit Ghosh, Poulami Mitra, Tania Paul and Abhik Dutta**, Neutraceutical Potential Of Some Rare Fruits & Vegetables: A Review, *The Pharma Innovation Journal*, 6(10): 421-424 (2017), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Chandralekha Bhowmik, Prostuti Chakravorty, Rupsa Roychowdhury, Shubhapriya Samantaand Manasi Roy**, Utilization of Various Seeds: A Review, *The Pharma Innovation Journal*, (Accepted), ISSN (E): 2277- 7695, ISSN (P): 2349-8242, NAAS Rating 5.03.

- **Anusree Modak,**Studies on Extraction of Polyphenols from Food Wastes and its Utilization for Fortification of Polyphenols: International Journal of Agricultural Engineering, ISSN (E): 0976-7223, ISSN (P): 0974-2662, NAAS Rating 4.43.

DEPARTMENT: CSE

International Journal

- **Sayanjit Dey, Sukalpa Dey,** "An Innovative Micro-Controller Based Crop Recommender Using Soil Analysis and Weather Forecasting Technique" published on Journal of Engineering Research and Application,ISSN : 2248-9622, Vol. 8, Issue5 (Part -V) May 2018, pp 38-41,(UGC approved) Impact factor:5.179, 29th May, 2018.

International Seminar / Conference

- **Susrut Banerjee, Soumalya Sen,"A Novel Technique to detect the number of ground vehicles along with respective speed of each vehicle from a given video"** Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

- **Pritam Roy, Jui Saha, Nikkon Dutta,** "**Microcontroller based Automated Room Light and Fan Controller"** Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

- **Sinthia Roy, Sukanya Rakshit** "**Realization of Arithmatic Circuits-An Approach Towards Ternary Computing**" Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

- **Soumalya Sen, Susrut Banerjee,"Implementation of Human Action Recognition using Image Parsing Techniques"** Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

- **Rituparna Saha,Reshmi Dhole, Sanjukta Das, Riya Ghosh, Ratnika Dutta,**"**An Implementation of Urban Mobility Framework to design future Smart City",** Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

- **Yogesh Singh ,"Implementing Extended Producer Responsibility into the ERP model",** Abstract published in International Conference on "Emerging Trends in Electronic Device and Computational Techniques" Organized by Guru Nanak Institute of Technology, Technical co-support by IEEE, held on 8th March, 2018.

DEPARTMENT: ECE

International Seminar / Conference

- **Suparna Biswas, Jaya Sil and S.P. Maity**, Compressive Sensing based Gender Recognition, Sixth International Conference on Advances in Computing Communication and Information Technology - CCIT 2018, 28-29, April, 2018at Zurich, Switzerland.
- **Abhishek Shaw, Arijeet Saha, Aparajita Bhagat,** Sayan RoyChowdhury, Design of wireless charger using piezo sensor, ASICN 2017, Dr. Sudhir Sur Engg. College, Kolkata, October 2017.
- **Roma Singh, Roshan Jha,** Two dimensional mobility in InP Single Quantum Well qand InAs Single Quantum well, RSA2017, Netaji Subhash Engg. College, August 2017.

- **Abhishek Shaw, Arijeet Saha, Aparajita Bhagat**, Wireless power transmission using piezo sensor, RSA2017, Netaji Subhash Engg. College, August 2017.

DEPARTMENT: ASHU

International Conference

- **Arnab Dey, Bipul Nath, Biplab Mondal** in Emerging Trends in Electronic Devices and Computational Techniques held in March 2018 at GNIT "New Approach of a Conceptual Solar Thermal Steam Generator and its design optimization".

DEPARTMENT: EE

International Conference

- **Surajit Biswas, Debasish Agasti, Rikta Majumder, Sukhdev Dolui**, "Micro-controller Based Over Current Relay Using Hall Effect Current Sensor", International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9th March,2018

- **Debasish Agasti, Arpan Lahiri, Rikta Majumder,** "Controlling of mobile car robots using IR Sensor and a triple axis magnetometer", International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9th March,2018.

- **Piu Mishra, Biswasdip Paul, Mr. Kalyan Kumar Chakroborty**, "A Smart Method of Road Power Generation", International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9th March,2018.

- **Debasish Agasti, Arpan Lahiri, Bapita Roy**, "Optical Fibre Based Smart Illumination System" ,International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9th March,2018.

- **Arnab Dey, Bipul Nath, Biplab Mondal, Rajarshi Chakraborty**," New Approach of a Conceptual Solar Thermal Stream Generatorand its Design & Optimization", International Conference on Engineering Trends in Electronic Devices and Computational Techniques, 9th March,2018

National Conference

- **Suvam Pal, Sayandeep Nayak, Sourish Bhattacharya**,"Hybrid Inverterwith Solar Battery Charging", FOSET, March, 2018.

- **Sayan Saha, Subhadip Som, Sourav Kumar**,"True Ultra-Fast Electronic Solid-state Circuit Breaker", FOSET, March, 2018.

- **Abhishek Mondal, Arijit Sinha, Ambar Ghosh, Biswajit Pal**,"Open Loop Speed Control of Chopper Fed DC Motor", FOSET, March, 2018.

- **Himadri Shekhar Mondal, Subharup Chakraborty, Sujoy Bhattacharjee, Sumer Raj Verma**, "Dual Axis Solar Tracker", FOSET, March, 2018.

- **Piu Mishra, Biswasdip Paul,** "Design of a Voice Controlled JCB Pulley Used For Remote Sensing", FOSET, March, 2018.

- **Somnath Bhattacharya, Saikat Bera, Subarna Das, Subrata kr. Paul,** "Induction Motor Protection System", FOSET, March, 2018.

- **Ritam Roy, Soudip Mal, Sounak Ghosh, Rikta Majumdar,** "Intelligent Energy Saving System", FOSET, March, 2018.

- **Vandana Rani, Vicky Paswan, Soyel Ghosh, Madhumita Chakroborty,** "Foot Step Power Generation using Piezoelectric Effect", FOSET, March, 2018.

- **Sourav Sarkar, Rohan Pal, Shouvik Sarma Chowdhury, Rikta Majumdar,** "Smart Surveillance System Using Passive Infrared Sensor", FOSET, March, 2018.

- **Purabi Majumder, Souvik Biswas, Susovan Dutta,**"GSM Based Fire Alarm System", FOSET, March, 2018.

DEPARTMENT: IT

International Journal

- **AshutoshDebnath, Ankita Paul, Chayan Chattopadhyay, Saheli Hazra , Sumit Kumar Singh** "Hybrid Routing Approach Depending on Different Message Types in VANET" International Journal of Scientific Research in Computer Science, Engineering and Information Technology,Vol-3, issue-5,pp 335-338 Technology.Indexing in Google Scholar, Citeseer, ICI. ISSN: 2456-3307.

- **AshutoshDebnath, ChayanChattopadhyay, Sumit Kumar Singh** "A Comparative Study of Different Emerging Routing Protocols in VANET" SinghInternational Journal of Emerging Technologies in Engineering Research (IJETER).Vol 6,issue-5, pp-129-134.Thomson & Reuters research ID-H-8878-2016.ISSN: 2456-3307.

- **Rohan Rajak** "A New Approach For TSV Based 3D-SIC Testing"International Journal of Emerging Technologies inEngineering Research (IJETER).Google scholar,Thompsons& Reuters Research ID: H-8878-2016.(Accepted).ISSN: 2319-3778.

- **Rohan Rajak** "Faulty TSVs Repairing using Redundant TSVs"International Journal for Research in Applied Science and Engineering Technology (IJRASET).Thomosn Reuters Research ID: N-9681-2016Scientific Journal Impact Factor: 6.887ISRA Journal Impact.(Accepted).ISSN: 2321-9653.

DEPARTMENT: AEIE

International Conference

- **Chanakya Fadikar, Indranil Acharya**, Sanghamitra Layek, Santana Das**, "**Design and Fabrication ofUltrasonic Pest Repellent", 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

- **Sayantan Roy, Sayantan Dey , Pabitra Chanda** , Santana Das, Sanghamitra Layek, **"**ATmega328 Based Solar Powered Automatic Irrigation System", 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

- **Bilam Roy, Aditya Acharya, Tanmoy K. Roy**, Sudip Kuila, Jayita Datta, "A Smart Street-light Intensity Optimizer", 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

- **Tanmoy Kumar Roy,Abhishek Sur**, Suparna Maity,"Radio Frequency Based HomeAppliances Monitoring &Controlling System", 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

- **Arpan Kumar Lahiri , Krishna Saha, Debasis Agasti,** Bapita Roy,"Optical Fibre based smart illumination System", 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

- **Piu Mishra, Biswadip Paul, Kalyan Kumar Chakroborty**, Bapita Roy,Santana Das," A Smart Method Of Road Power Generation For Safety Purpose", 1st International Conference on Emerging Trends in Electronic Devices and Computational Techniques (EDCT-2018) organized by the Department of ECE, GNIT on 8-9th March,2018.

2016-2017

DEPARTMENT: CSE

International Journal

- **Joy Dewanjee,"** A web based nucleotide sequencing tool using BLAST algorithm" published in International Journal of Biotech Trends and Technology (IJBTT) – volume 18 Issue 1, ISSN:2249-0183, September - October 2016**.**

- **Kunal Singh,Pritam Roy,Jui Saha,**"Spontaneous Fan Speed Control System Using Arduino",published in International Journal for Research in Applied Science and Engineering Technology (IJRASET),ISSN:2321-9653,pp-1560-1563,Volume 5 Issue IV, April 2017,Thomson Reuter Indexed [Thomson Reuter Researcher ID:N-9681-2016],[Google Scholar indexed],Impact Factor:5.969,IC Value:45.98,April 2017.

- **Trishna Arora,**"An Approach towards Arduino Based Automated Plant Irrigation System using Soil Moisture Sensor" published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017

- **Jasbir Singh,**"An Innovative Smart Health Care System by using Internet of Things" published on International Journal of Novel Research and Development with ISSN : 2456-4184, Impact Factor:3.57,Volume 2 Issue 4, April-2017

National Seminar/Conference

- **Angika Roy,Anirban Roy, Indranil Choudhury, Aradhya Kundu, Kaustav Dutta**," Implementing Smart City- An Approach Towards Big Data Analysis and Internet of Things",paper accepted in 1st Regional Science and Technology Congress, 2016,NITTTR, Presidency Division West Bengal, 13th -14th November,2016, NITTTR, Kolkata.

- **Kunal Singh**," Implementation of Hand and Voice Biometrics Based on GMM" paper accepted in 1st Regional Science and Technology Congress, 2016,NITTTR, Presidency Division West Bengal, 13th - 14th November,2016, NITTTR, Kolkata

DEPARTMENT: FT

National Seminar / Conference

- **Ushnil Dutta, Sanjana Chakraborti, "**Development of Value Enriched Carrot Fortified Chips for Better Security of Nutrition" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016.

- **Soumyadeep Pal, Anusree Modak, "**Food Waste: Mine of Polyphenols" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016.

- **Mainak Ghosh and Manasi Roy.** "Preservation Techniques & Product Development of Locally Available Mushrooms" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016.

- **Neelanjana Misra, Gargi Sharma, "**Herbal Bread: A Loaf For Good Health" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016..

- **Arunima Mukherjee, Bornini Banerjee, Shubham Mukherjee. "**Utilization of Green Banana Peel in Enriching the Antioxidant Potential in Chips" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal held on 15-16th Sept.,2016..

- **Shramana Bhattacharya, Sreemoyee Moitra, Sayani Adhikary "**Development of Probiotic Lassi Supplemented with Aloe Barbadensis Miller Juice and Effect" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department

of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal .held on 15-16th Sept.,2016.

- **Sruti Mandal, Saikat Gorai,** Development and Evaluation of Quality Characteristics of Nutritious Osmodried Fruits for enhanced Nutritional Security" UGC-Sponsored National Level Seminar on Food Security And Sustainable Nutrition In India: The Present Scenario" Organized by Department of Food and Nutrition, Acharya Prafulla Chandra College in collaboration with Department of Biochemistry & Nutrition, All India Institute of Hygiene and Public Health at Kolkata, West Bengal . held on 15-16th Sept.,2016.

- **Neha Jaiswal and Shalini Rastogi**, "Genetically Modified Foods: Safety", Risk, and Public Concerns,8th All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19th March, 2017.

- **Prostuti Chakravorty and Debarati Bhattacharyya**, "Studies on Extraction of Protein from De-oiled Meals", 8th All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19th March, 2017.

- **Anusree Modak**, "Studies on Extraction of Polyphenol from Cucumber and Potato Peels", 8th All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19th March, 2017.

- **Paromita Roychowdhury and Aayushi Bhomia**, "Study of Utilization of Ultrasound in Milk and Milk Product"**,** 8th All India Inter Engineering College Academic Meet-2017& Innovative Model Competition for a Sustainable Society, organized by FOSET, held on 19th March, 2017.

- **Bigroha Hajra and Soumyadeb Bhattacharyya**, "Modern Trends on Utilization of Food Technology", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017

- **Sreyasi Deb**, "An Enzymatic Approach For Debittering of Citrous Fruit Juice" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Mahua Sarkar and Saurav Bhattacharjee,** " New Horizons in Agricultural Biotechnology" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Ansu Chaudhary and Pinki Karmakar**, " Review: Genetically Modified Foods: Blessing or Curse" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Manasi Roy and Mainak Ghosh**, "Development of Mushroom Product: A Meat Substitute" 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Gargi Sharma**, "Delopment and quality analysis of pudina fortified herbal custard", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Sreemoyee Moitra and Sayani Adhikary**, "Effect of incorporating Aloe-vera in Sandesh", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Suparna Mukherjee and Srijanee Biswas,** "Rheological analysis of apple yoghurt", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Urmi Sarkar and Shreosi Das**, "Rheological analysis of coffee flavored Yoghurt", 8th All India Inter Engineering College Academic Meet - 2017 &Innovative Model Competition for a Sustainable Society organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Abhishek Kundu, Poulomi Mukherjee**, "Thermosonication a Suitable Approach of Alternative Processing", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Prajesh Nandy, Subhapriya Samanta**,"Microalgae as a Source of Natural Antioxidant", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Rupsha Roychowdhury, Madhulika Dutta**, "Algae is a source of Biofuel", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

- **Sanjana Chakraborty, Ushnil Dutta**, "Development and Analysis of a Nutrient Enriched Tropical Fruit Concoction", 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society, organized by FOSET in association with Gurunanak Institute of Technology, held on 19th March, 2017.

National Journal

- **Priyanka Dutta,** "Developmemt and characterization of curd fortified by pineapple juice" Indian journal of Dairy Science,Vol.69,Issue 5,Sep/Oct(2016),pp- 524-528, ISSN:0019-5146 (NAAS Rating: 4.19)

- **Sampurna Guhathakurta**,"Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm (Phoenix dactylifera L.).Indian Journal Dairy Science(Accepted),Volume 70, No. 1, 2017 (January-February 2017) (Accepted), ISSN:0019-5146,NAAS Rating: 4.19

- **Smita Singha Roy**, Effect of Heat Treatment on the Rheological Properties of Pulse Based Cabbage Soup, *J. Interacademicia*, 20(4) 515-519 (2016), ISSN: 0971-9016, NAAS Rating: 3.96

- **Shubham Mukherjee and Bornini Banerjee**, "Development and Quality Analysis of Milk Based Eggless Pudding", *J. Interacademicia*, 20(4) 520-525 (2016), ISSN: 0971-9016, NAAS Rating: 3.96.

- **Kailash Barman**, "Studies on the process development for the production of locally available pineapple products", *Journal of Interacademicia*, 20(4), 508-514, ISSN: 0971-9016. (NAAS Rating: 3.96), 2016.

- **Bornini Banerjee, Soumyadeep Pal, Subham Mukherjee, Lara Maity, Soumyadeb Bhattacharyya, Bigraho Hajra and Subhopriya Samanta,** Food safety challenges towards safe, healthy and nutritious street foods, *Journal of Interacademicia*, 20(4), 499-507, ISSN: 0971-9016. (NAAS Rating: 3.96). 2016.

- **Prastuti Chakravorty, Riya Dasgupta, Suravi Chakravorty, Rupsa Roychowdhury and Debjit Ghosh**, "Sweet Potato:Processing and Marketing: A Review",Journal of Interacademicia, 20(4), 562-568, (2016) ISSN: 0971-9016. (NAAS Rating: 3.96).

- **Sampurna Guhathakurta**, "Studies on Utilization of Milk for Extraction of Polyphenols from Date Palm"*(Phoenix dactylifera* L.). Indian Journal of Dairy Science,70(1):116-118, ISSN:0019-5146, (NAAS Rating: 5.26), 2017.

International Seminar / Conference

- **Anusree Modak and Neelanjana Misra** , "Herbs Fortified Whey Drink", International Conference on Emerging Technologies in Agricultural and Food Engineering**,**organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Smita Singha Roy and Soumyadeep Pal**, "Effect of Heat Treatment on the Functional Characteristics of Pulse based Tomato Soup", International Conference on Emerging Technologies in Agricultural and

Food Engineering**,**organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Soumyadeep Pal and Gargi Sharma**, "Preparation and Characterization of Salt Extracted Sesame (*Sesamum indicum* L.) Protein Isolate", International Conference on Emerging Technologies in Agricultural and Food Engineering,organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Bornini Banerjee, Subham Mukherjee and Arunima Mukherjee** ,"Utilization of Banana Peel as a Functional Ingradient in Chips Preparation", International Conference on Emerging Technologies in Agricultural and Food Engineering,organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Sayani Adhikary and Sanchita Mukherjee**,"Quality Analysis of Raw and Packaged Milk of Kolkata, International Conference on Emerging Technologies in Agricultural and Food Engineering",organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Saikat Gorai and Sruti Mondal** , "Development and Utilization of Carrot Powder in Value Added Biscuit Production", International Conference on Emerging Technologies in Agricultural and Food Engineering,organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Ushni Dutta and Sanjana Chakraborty**, "Effect of Drying of Cucumber at Different Temperatures on Drying Characteristics and Physicochemical Properties", International Conference on Emerging Technologies in Agricultural and Food Engineering, organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Subhojit Singha , Chandrima Sarkar and Sukriti Dutta**, "Potentiality of Polymers in Food Packaging", International Conference on Emerging Technologies in Agricultural and Food Engineering,organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Chandrani Dutta, "**Comprehensive Study on the Antioxidants and Proximate Analysis of Fruits Vegetables", International Conference on Emerging Technologies in Agricultural and Food Engineering,organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Sukanya Kar, Dipsikha Mukherjee and Sreemoyee Moitra**, "Development of Value Added Biscuits Fortified by Whey Protein", International Conference on Emerging Technologies in Agricultural and Food Engineering,organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Manasi Roy and Mainak Ghosh,** "The Essence of Life – Aloe vera(Preparation of Pickle from Aloe vera)" International Conference on Emerging Technologies in Agricultural and Food Engineering,organized by Agricultural and Food Engineering Department, IIT Kharagpur, held on December 27-30, 2016.

- **Bigroha Hajra**,"Analysis and Study on the Anti-oxidant of Citrus Fruits", International Seminar on Contemporary Developments in Nutritional Research Organised by IQAC and Department of Food & Nutrition, Barrackpore Rastraguru Surendranath College, held on 5th and 6th January 2017.

Interational Journal

- **Shramana Bhattacharyya and Sreemoyee Moitra** (2017).Potential Application of Milk and Milk Products as Carrier for Herbs and Spices: A Review, International Journal of Engineering Research and Science & Technology,6(1): 114-125, ISSN 2319 – 5991,IF:1.09.

- **Arunima Mukherjee, Bornini Banerjee and Subham Mukherjee**, "Utilization of Banana Peel and Pulp as a Functional Ingredient in Product Development": A Review, International Journal of Engineering Research and Science & Technology,6(1):1-12, ISSN 2319 – 5991, IF:1.09.

- **Gargi Sharma and Neelanjana Misra, "**Herbs fortified food - Key of Polyphenols": a Review, International Journal of Engineering Research and Science & Technology, 6(1): 18-29, ISSN 2319 – 5991, 2017, IF:1.09.

- **Riya Dasgupta, Debjit Ghosh (2017).** Climatic conditions required and factors affecting the production of sweet potato,International Journal of Agricultural Science and Research, 7(1): 459-464, ISSN-2250-0057 (NAAS Rating: 4.13), IF: 4.8136.

- **Bornini Banerjee and Shubham Mukherjee**, "Banana peel wastes: potential source of antioxidant in banana chips", International Journal of Agricultural Science and Research (IJASR), **7**(2):73-80, (2017) ISSN (Print): 2250-0057; ISSN (Online): 2321-0087; Impact Factor (JCC): 4.8136; (NAAS Rating: 4.13); 2017 IBI Factor: 3.2.

DEPARTMENT: AEIE

International Conference

- **Mr. Souvik Das, Ms. Reparna Saha** "PLC based Modern Monoculture Farming System", 1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016), jointly organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20th October, 2016.

- **Shovan Kar,** "Microcontroller based dual axis solar tracking system", 1st International Conference on "VLSI, Devices, Circuits and Systems (VLSI DCS 2016), jointly organized by IEEE MSIT Student Branch, IEEE MSIT EDS Student Branch Chapter, IEEE EDS Kolkata Chapter and IEEE SSCS Kolkata Chapter, in association with the Department of ECE, MSIT and technically cosponsored by IEEE Kolkata Section on 19-20th October, 2016.

International Journal

- **Mr. Souvik Das,Ms. Reparna Saha,"**PLC based Modern Monoculture Farming System",Journal of Advances in Industrial Engineering and Management has been communicated,ISSN:2222-7059(Print);EISSN:2222-7067, 2016.

- **Shovan Kar,** "Microcontroller based dual axis solar tracking system", Journal of Advances in Industrial Engineering and Management has been communicated,ISSN:2222-7059(Print); EISSN:2222-7067,2016.

National Conference

- **Sudeshna Banerjee, Sintu Kumar Barnwal,** "An Automated Method of temperature And Humidity Measurement for Calibration Laboratory", in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017,organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017.

- **Arpan Kumar Lahiri, Debasis Awasti**, "Air Swipe Controlled home-made speaker", in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017,organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017.

- **Anirban Chakraborty**, "Colour Sensor Based Ambient Light with Manual Control", in 8th ALL INDIA INTER ENGINEERING COLLEGE ACADEMIC MEET – 2017,organized by FOSET in collaboration with Guru nanak Institute of Technology on 19th MARCH, 2017.

DEPARTMENT: IT

International Journal

- **Sumit Kumar Singh**,"Congestion Control in VANET with Time Synchronization Approach and by Controlling Number of Messages". International Journal of Emerging Technologies in Engineering Research (IJETER). Volume 4, Issue 7, Page 13-16, impact factor 4.225, July 2016.

DEPARTMENT: EE

International Journal

- **Soumik Roy**, "Designing a Dual-Axis Solar Tracking System for increasing efficiency of a Solar Panel", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering(IJAREEIE), Impact Factor: 5.621, (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 12, December 2016.

- **Krishnendu Jana, Foyjuddin Khan**,"Cost Effective Multi-Purpose Solar Charger Unit for Rural Development",published in International Journal of Computer Sciences and Engineering, August 2016.

DEPARTMENT: ECE

InternationalConference

- **Saikat Sarkar, Satyaki Nan, Priyankar Ghosh, Moinak Adhya, Sandip Kumar Singh,** Avali Ghosh**,** "Bidirectional Visitor Counter with security system and Automated Room Light Controller",8th All India Inter Engineering College Academic Meet - 2017 And Innovative Model Competition For A Sustainable Society, 19th MARCH, 2017.

- **A.Bhaumik. A.Das, A. Yadav, A.Shaw, A.K. Misra,** Sunipa Roy, "Non conventionbal energy sources using piezoelectric crystal for wearable electronics", IEEE Sponsored International conference IEMENTECH,Science City,Kolkata 28-29 April,2017.

- **P.Chowdhury, S. Mahato, S. Das,**Sunipa Roy**, "**TEM analysis of microheater using SiO2/Si3N4 composite membrane for long term gas sensor applications",IEEE Sponsored International conference IEMENTECH,Science City, Kolkata. 28-29 April,2017.

2015-2016

DEPARTMENT: CSE

International Journal

- **Anirban Roy:** "Microcontroller Based Universal Asynchronous Receiver Transmitter (UART) Communication System"published in International Journal of Engineering Development & Research,ISSN :2321-9939,Volume 4,Issue 2,Impact factor: 3.97, April 2016.

- **Angika Roy:** "Internet of Things (IOT) based Smart Health Care System" published in International Journal of Engineering Development & Research ISSN:2321-9939, Volume 4,Issue 2,Impact factor: 3.97, April 2016.

- **Swatilekha Saha:** "Discrete Cosine Transform based Steganographic Approach Using JPEG Quantization Table"published in International Journal of Engineering Development & Research, ISSN:2321-9939,Volume 4,Issue 2,Impact factor: 3.97, April 2016.

- **Swatilekha Saha**:"A Novel Approach: Architecture Based Various Designing Issues on Wireless Sensor Network Environment**"**, International Journal of Engineering Development & Research ISSN:2321-9939, Volume 4,Issue 2,Impact factor: 3.97, April 2016

- **Reyad Hossain:** "Implementation of Hand biometrics on mobile devices"published in Gurukul International Multidisciplinary Research Journal, ISSN:2394-8426, Volume 6,Issue 2, Impact factor: 2.254, March 2016.

- **Supriya Das** "Encryption Key Generation by Using Biometric approach in Secure Data Packet Transfer"published in International Journal of Engineering Development & Research, April 2016.

DEPARTMENT: IT

International Seminar / Conference

- **Prabhakar Kumar, Hardip Singh Kataria** "Congestion control approach by reducing the number of messages in VANET" 4th International Conference on Reliability, Infocom technologies and Optimization (ICRITO 2015)September 2-4, 2015.

- **Pramit Karmakar**," Prebond TSV Based 3D-SIC Testing", International Conference on Current Research in Engineering Science and Technology (ICCREST-2016).4th to 6th MAY,2016.

- **Sreya Bhattarcharya**,"Next Generation Sequencing Technology",International Conference on Recent Trends in Engineering and Technology (ICRTET-2016)May 15th, 2016.

International Journal

- **Md. Shahriq Khan**,"Congestion Control in VANET Using Threshold Based Distance Metric with Time Synchronization Approach,**International Journal of Innovations in Engineering and Technology (IJIET)**ISSN: 2319 – 1058.

DEPARTMENT: FT

National Seminar / Conference

- **Paushali Sinha, Mandira Bhowmick**, "Preparation of Ice Lolly using Beet color",Beverage & Food World (National)",July,2015.

- **Sanjana Chakraborti**,"Advancement in Packaging of Milk and Milk Products."National Seminar on a theme "Dairying: Innovative Technology Initiatives in Production and Processing", organized

by Indian Dairy Association (EZ), held on at West Bengal Veterinary Council Bhawan Auditorium, Belgachia, Kolkata, W.B.,12th March, 2016.

- **Sudipta Sain, Dipsikha Mukherjee,"**Food Packaging: Innovation for the future. "Seminar on 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B,13th March, 2016.

- **Sreemoyee Moitro,Sukanya Kar**," Role of Functional Ingredients in Functional Foods"Seminar on 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13th March, 2016.

- **Ankita Kundu, Bhaswati De**,"Study on effect of drying on banana chips"Seminar on 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13th March, 2016.

- **Anusree Modak, Nilanjana Mishra**,"Fortification of Sesame Seed Meal in Cookies Formulation",Seminar on 7th All India Inter College Academic Meet-2016 &Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13th March, 2016.

- **Sreyasi Deb**,"Energy Drinks"Seminar on 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13th March, 2016.

- **Chendrima Basu, Priayanka Dasgupta,"**Characterization of Aloe vera and Development of Different Aloe vera Products"Seminar on 7th All India Inter College Academic Meet-2016 & Innovative model competition for a sustainable society, organized by FOSET, at Kolkata, W.B.13th March, 2016.

National Journal

- **Mandal P,Jha P :** "Development and Evaluation of Quality of Carrot Fortified Chips" Beverage & Food World Journal (National) November 2015,Vol.42,No.11,pp 46-48,ISSN: 0970-6154.

- **Dipsri** "A Comparative Study on Drying Kinetics of Tray Dried Cucumber Under Different Temperature and Their Physicochemical Properties" Beverage & Food World Journal (National) December 2015, Vol.42,No.12,pp 46-50,ISSN:0970-6154.

International Seminar / Conference

- **Manasi Roy, Chandrani Dutta**,"Utilization of By-Products from Egg and Egg Product Industries International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Sanjana Chakraborti, Ushnil Dutta**,"Sustainable & Edible Packaging-When food gets Wrapped International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Smita Singha Roy, Lara Maity**,"Effect of Processing on the Functional Properties of Pulse Based Cabbage Soup International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Lara Maity, Smita Singha Roy**," Effect of Fortification of Raisin and Dates in Milk" International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Subham Mukherjee, Bornini Banerjee,"**Fortified Vegetable Pudding: Technology and Quality Control "International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Subhajit Basu, Ankita Kundu, Bhaswati De, Sk. Nazim Ahmed**,"Nutraceutical Application and Value Addition of Banana Chips" International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Bornini Banerjee, Subham Mukherjee**, "Preparation and Characterization of Value Added Banana Chips",International conference on 'Recent Advances in Food Processing and Biotechnology', Organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Mainak Ghosh, Saikat Gorai,**"Development of a value added fermented nutra beverage from Madhuca latifolia flower" International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Arunima Mukherjee**,"Development of Different Products from Wood Apple "International conference on 'Recent Advances in Food Processing and Biotechnology', organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, 5th and 6th April 2016, IJCN: ISSN:0971-9210.

- **Sruti Mandal**,"Aloe vera: A Functional Ingredient of Food"International conference on 'Recent Advances in Food Processing and Biotechnology', Organized by Centre of Food Science and Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India 5th and 6th April 2016, IJCN: ISSN:0971-9210.

DEPARTMENT: ECE

International Seminar / Conference

- **SomSubhraMondal** , M.Tech 2015 Passout 'Generation of Novel Encrypted Code using Cryptography for Multiple Level Data Security for Electronic Patient Record'(pp-916-921, indexed in IEEE Explore)- in IEEE International Conference on Bioinformatics and Biomedicine-BIBM 2015, at Washington DC, USA, 9-12 NOV 2015.

International Journals

- **Shatadru Biswas, Dibyendu Das**,"The Effect of Defective Ground Plane on a Wide Band Dual Frequency Circular Patch Antenna" International Journal of Advanced Research in Computer Science and Software Engineering, April 2016,IF-2.5.

- **Swatilekha Sarkar, Gargi Majumdar, Shubham kumar Maurya, Sangeeta Hazra**,"Design and Analysis of a Wideband CPW fed Circular Patch Antenna for Wireless Communication Applications", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 4, Issue 5, May 2016,IF-5.611.

- **SHATADRU BISWAS**,"A Comparative Study Based On Design Parameter Variance in A Circular Patch Antenna Enclosed By A Rectangular ring For Multiband Operation in Wireless And Satellite Communication Applications International Journal of Engineering Science and computing April 2016,IF-5.618.

- **PoulomiNath,**"Multifrequency Microstrip Antenna for Mobile Communication "International Journal of Engineering Science and Computing,April 2016, IF-5.618.

- **Ananya Ganguly**, "Development of AlGaAs /GaAs/AlGaAs Step Quantum well to produce Tunable Photo Detector and Electro-Absorption Modulator for noise reduction" International Research Journal of Engineering and Technology, April 2016,IF-4.45.

DEPARTMENT: CA

International Journals

- **Sayantan Chanda, Arunabha Nath, Mouli Dutta,Krischina Koley, "** Use of Some Popular Android Applications in Post Disaster Management Scenario",published on International Journal of Computer Science and Information Technology,Volume 6,Issue 6, pp: 5274-5278,December 2015.

- **Sandip Ray,Saheli Dutt,Soumasree Chanda,Seonti Dasgupta**,"Survey on Cloud Based Internet of Things Environment",International Journal of Advance Research in Computer Science and Management ,Vol 4 Issue 4, May 2016.