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GURUNANÁK INSTITUTE OF TECHNOLOGY

Approved by A.I.C.T.E., New Delhi Affiliated to MAKAUT, West Bengal

GNIT

MINUTES OF THE MEETING, 2023 OF BOARD OF STUDIES OF COMPUTER SCIENCE AND ENGINEERING DEPARTMENT HELD ON 26/04/2023 AT 11:00 A.M. FOR B.TECH



Office of Head of the Department Computer Science and Engineering

Guru Nanak Institute of Technology

157/F, Nilgunj Road, Panihati, Kolkata-700114

Email: head_cse.gnit@jisgroup.org Website: www.gnit.ac.in

Ref. No: GNIT/CSE/BOS/2023/01

Date: 03/04/2023

NOTICE

It is hereby informed to all the members of the Board of Studies that a meeting in blended mode will be held on 26/04/2023 from 11:00 a.m. onwards for B.Tech on the following agendas:

Agenda:

- 1. Confirmation of Minutes of last BOS Meeting.
- 2. Approval of Action Taken Report of the resolutions taken in the last meeting
- Discussion on implementation of R23 Curriculum of Computer Science and Engineering with NEP 2020.
- 4. Discussion on curriculum feedback

The online link of the meeting is https://meet.google.com/tkt-yjnf-fuo.

All are requested to attend the meeting.

Dr. Sangeeta Bhattacharya

Sphatlacharya

Chairperson, BOS EETA BHATTACHARYA
licad of the Department
Computer Science and Engineering
Guru Nanak Institute of Technology
Sodepore, Panihati, Kol-114

Ms. Srabani Kundu Convener, BoS

Copy To:

- 1. Principal
- 2. Registrar
- 3. Prof. Utpal Raychowdhury, Dean Academics
- 4. Prof. Dr. Kaushik Roy, Dept. of Computer Science, West Bengal State University
- 5. Dr. Ram Sarkar, Dept. of Computer Science & Engineering, Jadavpur University
- 6. Mr. Indranil Roy Chowdhury, Sr. Manager Al/ML & Cognitive, CTS
- 7. All Internal BoS Members



Date: 27/04/2023

MINUTES OF THE MEETING

Referring to the notice no. GNIT/CSE/BOS/2023/01, dated 03/04/2023, a meeting of the Board of Studies of Computer Science and Engineering department for B.Tech was held on 26/04/2023 from 11:00 a.m. in blended mode.

Members Present:

SI, No	Name of the Member	Designation
Exteri	ıal	
1	Dr. Kaushik Roy	Dept. of Computer Science. West Bengal State University
2	Dr. Ram Sarkar	Jadavpur University
3	Mr. Indranil Roy Chowdhury	Sr. Manager – AI/ML & Cognitive, CTS
Interna	II	Manual Manual Annual An
Mindrich Challes (Strap Compan)	Dr. Sangeeta Bhattacharya	HoD and Chairperson, BoS
2	Ms. Srabani Kundu	Convener, BoS
3	Dr. Suranjan Ghose	Faculty
4	Dr. Suman Bhattacharya	Faculty Faculty
5	Dr. Mahamuda Sultana	Faculty
6	Dr. Rupak Chakraborty	Faculty
7	Mr. Amrut Ranjan Jena	Faculty
8	Dr. Ananjan Maiti	Faculty
9	Ms. Ipsita Saha	Faculty
10	Mr. Moloy Dhar	Faculty
11	Ms. Mandira Banik	Faculty
12	Mr. Sourish Mitra	Faculty
13	Ms. Sayani Chandra	Faculty
14	Ms. Pallabi Das	Faculty
15	Ms. Bidyutmala Saha	Faculty
16	Mr. Rafiqul Islam	Faculty
17	Mr. Krishnendu Chowdhury	Faculty
18	Mr. Nirupam Saha	Faculty
19	Ms. Paramita Sarkar	Faculty
20	Ms. Masuma Sultana	Faculty
21	Mr. Ahana Ghosh	Faculty
22	Mr. Abhirup Sinha	Faculty
and the second second	Mr.Sumit Kumar Banerjee	Faculty
	Mr. Sougata Sarkar	Faculty
	Mr.Ratnadeep Mazumdar	Faculty



Members Absent:

Internal				LP of the Charle Conception at the Printers	CHINA TAKAR WILLIAM TO YOU GA
Sl. No.	Name of the Member		Designation	er gent vorte gle sovjerne in sige	
1	Dr. Moumita Das	Faculty			Statement of the statem
2	Mr. Debraj Das	Faculty	158.5	t ellimissä til Franksi upptatetti julik systemet	
3	Mr. Souvik Mazumdar	Faculty			
4	Mr. Debashis Dhar	Faculty /	Mar.	A STATE OF THE PARTY OF T	- in the second second
5	Mr. Deepayan Pal	Faculty	(E)		
6	Dr. Sayantan Nath	Faculty			100

The discussion was based on the following agenda:

Agenda:

- 1. Confirmation of Minutes of last BOS Meeting.
- 2. Approval of Action Taken Report of the resolutions taken in the last meeting
- 3. Discussion on implementation of R23 Curriculum of Computer Science and Engineering with NEP 2020.
- 4. Discussion on curriculum feedback.

Resolutions:

The following resolutions are made agenda wise as per the suggestions from the experts and members:

Agenda 1: Confirmation of Minutes of last BOS Meeting

The minutes of last BOS meeting was duly confirmed and approved by the members.

Agenda 2: Approval of Action Taken Report of the resolutions taken in the last meeting

The members noted the Action taken report of the last held BOS meeting's resolution.

Agenda 3: Discussion on implementation of R23 Curriculum of Computer Science and Engineering with NEP 2020.

During the discussion on the implementation of the R23 Curriculum of Computer Science and Engineering in accordance with the guidelines of NEP 2020, the Board of Studies (BoS)



members prepared a tentative list of courses and discussed the teaching process to ensure a more realistic and future-ready curriculum for the students.

Agenda 4: Discussion on curriculum feedback.

It is decided in the BoS that feedback on R21 curriculum will be taken from different Stake holders like Alumni, Industry experts.

The suggestions are approved by all members present in the BoS meeting.

The meeting ended with vote of thanks by the Convener of BoS.

Dr. Sangeeta Bhattacharya Chairperson Botta BHATTACHARYA Chairperson Bead of the Department Head of the Department

Computer Science and Engineering
Guru Nanak Institute of Technology
Sodepore, Panihati, Kol-114

Ms. Srabani Kundu Convener, BoS



ANNEXURE I

Sl. No.	Category	Course Code	Course Title	H	ours pe	r wee	k	Credits
	THEORY			L	T	P	Total	
1	Basic Science course	PH101	Physics-I	3	0	0	3	3
2	Basic Science course	M101	Mathematics –I	4	0	0	4	4
3	Social Sciences including Management courses		Professional Communication	2	0	0	2	2
7507 7	PRACTICAL					1120	进大学生	3. 沙坡里
4	Basic Science course	PH191	Physics-I Lab	0 ,	0	3	3	1.5
5	Engineering Science Courses	ME 191	Workshop & Manufacturing Practices Lab	0	0	3/	3	1.5
6	PROJECT	PR191	Theme based Project I	0	0	1	1	0.5
7	PROJECT	PR192	Skill Development I: Soft Skill	0	0	1	1	0.5
HER WAY	MANDATORY ACT	IVITIES	COURSES	An Arthur	Total	7 100		1 Willy 1
8	Mandatory Course	MC181	Induction Program	0	0	0	0	2Units
	TOTAL CREDIT				1 (107 1 1 1	La contra de	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13.0



Sl.	Category	Course	Course Title	-		Ho	urs r	er	wee	k	Credits
No.		Code			L		T		P	Total	
A. T	HEORY			h-,	(*) - !	5	1: 54	9 "	to a to t	1. 1. 1. 4	
5	Program Core Course	CS302	Data Structures		3	-	0		0	3	3
6	Humanities and Social Sciences including	HSMC 303	Universal Human Values 2: Understanding Harmony		3		0		0	3	3
	Management courses					B					
B. PI	RACTICAL	g Halivery	The state of		· F	14.1.				1,450	
7	Engineering Science Courses	M (CS)391	Numerical Methods Lab	1		0		3		3	2.5
3	Engineering Science Courses	ESC391	Digital and Analog Electronics Lab	0		0		3		3	1.5
)	Program Core Course	CS391	ITWorkshop Lab (SciLab/MATLAB/C++)	0	W.	0		3		3	1.5
10	Program Core Course	CS392	Data Structures Lab	0	7.8	0	- Tr 1 - 4 Tr	3	- i	3	1.5
1	PROJECT	PR391	Theme based Project III	0		0		1		1,	0.5
12	PROJECT	PR392	Skill Development III: Technical Seminar Presentation	1		0		0		1	0.5
C. M.	ANDATORY ACT	TIVITIES / C	OURSES				59	re _{gor} ,	7- 1		
	MC	MC 301	Environmental Science	0		, ()	3	15		3 Units
			MOOCS COURSES							1 14" "	26.0
	OOCS COURSES							1.	\$		
4	MOOCS COURSES	HM301	MOOCS COURSE-I	1	i i		3	1		4	4
'OT	AL CREDIT WIT	H MOOCS C	OURSES						1		30



SI.	Category	Course Code	Year 2nd Semester: 4th Semester Course Title	Н	ours	er v	veek	Credit
No.	Category	Course Code	Course Time		T	P	Total	
THE RESERVE AND ADDRESS OF	HEORY	Table 1986			ψij.		#1.	
2-1-100		PCC-CS401	Computer Organization and Architecture	3	0	0	3	3
		PCC-CS402	Design and Analysis of Algorithms	3	0	0	3	3
		PCC-CS403	Operating Systems	3	0	0	-3	3
		PCC-CS404	Formal Language and Automata Theory	3	0	0	3	3
		HSMC 402	Gender Culture and Development	2	0	0	2	2
5	Basic Science course	BSC401	Probability and Statistics	3	0	0	3	3
B. P	RACTICAL	ter en en en en en en	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11	tale!		
7	Program Core Course	PCC-CS491	Computer Organization and Architecture Lab	0	0	3	3	1.5
S	Program Core	PCC-CS492	Design and Analysis of Algorithms Lab	0	0	3	3	1.5
9	Program Core Course	PCC-CS493	Operating Systems Lab	0	0	3	3	1.5
10	Engineering Science Courses	ESC491	Programming using Python	0	0	3	3	1.5
11	PROJECT	PR 491	Theme based Project IV	0	0	1	1	0.5
12	PROJECT	PR492	Skill Development IV: Soft Skill & Aptitude-I	1	0	0	1	0.5
C. N	JANDATORY ACTI	VITIES / CO	URSES		1	1	est Established	
13	MC	MC 481	Learning an Art Form [vocal or instrumental, dance, painting, clay modeling, etc.] OR Environmental Protection Initiatives	0	0 (0	3	3Units
	TOTAL CREDIT	WITHOUT M	OOCS COURSES		,	V	£	24
D.N	100CS COURSES	,	图		1.1	11		6700 ·
14	MOOCS COURSES		MOOCS COURSE-II	3	1	0	4	4
TO	TAL CREDIT WITH		URSES h Semester (Summer/Winter Train					28



		3rd Year	· 1st Semester: 5th Semester					
Sh	Category	Course Code	Course Title		Hour	s per w	eek	Credi ts
No.				L	Т	P	Total	
A. T	HEORY	remain Hills						
	Humanities and Social Sciences including Management courses	HSMC 505	Principles of Management	2	0	0	2	2
?	Program Core Course	PCC-CS501	Compiler Design	3	0	0	3	3
3	Program Core Course	PCC-CS502	Database Systems Management	3	0	0	3	3
4	Program Core Course	PCC-CS503	Object Oriented Programming using Java	3	0	0	3	3
5	Professional Elective courses	PEC-CS-T- 501	Advanced Algorithms	<u>.</u> -			· 4	
		PEC-CS-S- 501	Advanced Computer Architecture	3	0	0	3	3
		PEC-CS-D- 501	Neural Networks and Deep Learning	3				
- · ·		PEC-CS-A- 501	Artificial Intelligence					10 (1) 10 (1) 10 (1)
B. PI	RACTICAL				1,80	GH.		4 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6	Program Core Course	PCC-CS591	Compiler Design Lab	0	0	3	3	1.5
7	Program Core Course	PCC-CS592	Database Management Systems Lab	0	0	3	3	1.5
8	Program Core Course	PCC-CS593	Object Oriented Programming using Java Lab	0	0	3	3	1.5
9	Professional Elective courses	PEC-CS-T- 591	Advanced Algorithms Lab	0	0	3	3	1.5
		PEC-CS-S- 591	Advanced Computer Architecture Lab					



	***************************************			1	11			
		PEC-CS-D- 591	Neural Networks and Deep Learning Lab					
		PEC-CS-A- 591	Artificial Intelligence Lab		,		1 // C.	
10	PROJECT	PR 591	Minor Project I	0 :	0	3	2	1
11	PROJECT	PR 592	Skill Development V: Soft Skill & Aptitude-II	1	0	0	1	0.5
C. M.	ANDATORY ACTIVI	TIES / COURS	ES			184	All a	
12	MC	MC 501	Constitution of India	3	0	0	3	3Units
National Contraction	TOTAL CREDIT W	ITHOUT MOO	CS COURSES					21.5
D. M(OOCS COURSES**				# d 1 1 1 1 1 1 1 1 1		lijbi.	
1 3	MOOCS COURSES	HM501	MOOCS COURSE-III	3	1	0	4	4
TO	TAL CREDIT WITH	MOOCS COUR	SES					25.5



		3rd Year 2	and Semester: 6th Semester			3/4		
SI.	Category	Course Code	Course Title		Hours	per v	veek	Cred
No.				L	T	P	Total	
A. TI	HEORY						a align	
1	Humanities and Social Sciences including Management courses	HSMC 604	Economics for Engineers	2	0	0	2	2
2	Program Core Course	PCC-CS601	Computer Neteworks	3	0	0	3	3
3	Program Core Course	PCC-CS602	Software Engineering	3	0	0	3	3
4	Professional Elective courses	PEC-CS-T- 601	Microprocessor and Microcontroller	3	0	0	3	3
		PEC-CS-S-601	Advanced Operating Systems					
		PEC-CS-D- 601	Machine Learning					
		PEC-CS-A- 601	Web and Internet Technology				1 2	
5	Professional Elective courses	PEC-CS-T-	Parallel and Distributed Algorithms	3	0	0	3	3
		PEC-CS-S-602	Embedded Systems					
		PEC-CS-D- 602	Soft Computing					
		PEC-CS-A- 602	Human Computer Interaction					
6	Open Elective	OEC-CS-601A	Introduction to Internet of	3	0	0	3	3



T	courses		Things	- 1				- D ₂
		OEC-CS- 601B	Bio-informatics				. 1	
		OEC-CS- 601C	Robotics			17		
B. PR	ACTICAL					c Propositional second	and the second s	rpropertyles demostikenski
7	Program Core Course	PCC-CS691	Computer Networks Lab	0 ,	0	3	3	1. 5
8	Program Core Course	PCC-CS692	Software Engineering Lab	0	0	3	3	1.
9	Professional Elective courses	PEC-CS-T- 691	Microprocessor and Microcontroller Lab	0	0	3	3	1.
		PEC-CS-S-691	Advanced Operating Systems Lab					
		PEC-CS-D- 691	Machine Learning Lab			£		
		PEC-CS-A- 691	Web and Internet Technology Lab		1	N.		Sala Sala
10	PROJECT	PR 691	Minor Project II	0	Û	3	2	1
11	PROJECT	PR 692	Skill Development VI: Soft Skill & Aptitude-III	1	0	0	1	0.5
C. M.	ANDATORY ACTIVIT	IES / COURSES	1 5,1					
12	MC	MC 601	Intellectual Property Right	3	0	0	3	3Units
	TOTAL CREDIT WIT	THOUT MOOCS	COURSES		5::	-	<u> </u>	23.0
D.MC	OOCS COURSES**				·			
13	MOOCS COURSES	HM601	MOOCS COURSE-IV	3	1	0	4	4
TO	TAL CREDIT WITH M	OOCS COURSE	S		,	- 1.2		27



AN INSPERIOR PROPERTY.		4th Y	ear 1st Semester: 7th Semester					a de
SI No	Course Code	Paper Code	Theory	A STATE OF THE PARTY OF THE PAR	Cont /Wee		lours	Cre dit Poi nts
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A. T	HEORY		全性的情况的 经营业的			1		
1	Professional Elective	PEC-CS-T-701	Information Theory and Coding	3	0	0	3	3
	courses	PEC-CS-S-701	Ad-Hoc and Sensor Networks				And the state of t	
		PEC-CS-D-701	Data Mining and Data Warehouse					
		PEC-CS-A-701	Cloud Computing	7		Ĭ,		10
2	Professional	PEC-CS-T-702	Quantum Computing	3	0	0	3	3
	Elective courses	PEC-CS-S-702	Mobile Computing	-			4 '	
		PEC-CS-D-702	Natural Language Processing		-			1
		PEC-CS-A-702	Cryptography and Network Security	3		3 0°		<u> </u>
3	Open Elective	OEC-CS-701A	High Performance Computing	3	0	0	3	3
	courses	OEC-CS-701B	Image Processing				ý	
	-	OEC-CS-701C	Optimization Techniques					
4	Open Elective	OEC-CS-702A	Cyber Law and Ethics	3	0	0	3	3
	courses	OEC-CS-702B	Soft Skills and Interpersonal Communication	·				
		OEC-CS-702C	Foreign Language	, .				



5	Professional Elective	PEC-CS-T-791	Information Theory and Coding Lab	0	0	0	3	1.5
	courses	PEC-CS-S-791	Ad-Hoc and Sensor Networks Lab					
		PEC-CS-D-791	Data Mining and Data Warehousing Lab					
		PEC-CS-A-791	Cloud Computing Lab	K.	17			
6	Open Elective courses	OEC-CS-791A	High Performance Computing Lab	0	0	3	3	1.5
		OEC-CS-791B	Image Processing Lab					
		OEC-CS-791C	Optimization Techniques Lab					
7	PROJECT	PR 791	Major Project-I	0	0	0	4	2
8	PROJECT	PR 792*	Industrial Training / Internship	0	0	0	0	g1 5
9	PROJECT	PR 793	Skill Development VII: Seminar & Group Discussion	1	0	0	1	0.5
C. M	IANDATORY A	CTIVITIES / CO	URSES	h. 4	74 T		1	
10	MC	MC 781	Entrepreneurship & Innovation Skill	3	0	0	3	3 Units
тот	AL CREDIT W	THOUT MOOC	S COURSES		(y')		, - # ₁	18.5
o.MO	OCS COURSE	S**			1. 7.		a Wi	
11	MOOCS COURSE S	HM701	MOOCS COURSE-V	3	1	0	4	4
тот	AL CREDIT W	TTH MOOCS CO	URSES	4 4 5 5		the file	1415	22.5



SI No	Course Code	Paper Code	Theory		ours	Credit Points		
/ ·				L	T	P	Tot al	
A. T	HEORY							APP I
1	Professional Elective courses	PEC-CS-T-801	Advance Graph Algorithms	3	0	0	3	3
		PEC-CS-S-801	Real Time System			1	Design	
		PEC-CS-D-801	Data Analytics					
		PEC-CS-A-801	Computer Graphics		1			
2	Open Elective courses	OEC-CS-801A	Human Resource Development and Organizational Behavior	3	0	0	3	3
		OEC-CS-801B	VLSI					
		OEC-CS-801C	Simulation and Modeling		1 5 2 3			
3	Open Elective courses	OEC-CS-802A	Values and Ethics in Profession	3	0	0	3	3
		OEC-CS-802B	History of Science					
		OEC-CS-802C	Economic Policies in India					



PR	ACTICAL	1134	, @ H A						
	PROJECT	PR 891	i de la	Major Project-II	0	0	0	12	6
1 -	PROJECT	PR 892		Grand Viva	0	0	0	0	1
M	ANDATORY ACT	IVITIES / CC	URS	ES					
	MC	MC 801		Essence of Indian Knowledge Tradition	0	0	3	3	3 Units
Т	AL CREDIT								16
