

Guru Nanak Institute of Technology (GNIT)

Minutes of the 2nd Academic Council Meeting 2019

Venue : Conference Hall, GNIT

Date: 05.12.19

The second Academic Council meeting of 2019 was held on 5th December at the Conference Room of GNIT to discuss the agenda as mentioned below which were notified to the honourable members on November, 2019.

Members present:

1. Prof.(Dr.) Santanu Kumar Sen : Principal & Chairman
2. Dr.Sucharita Bhattacharyya : Associate Professor & Member Secretary
3. Dr. J.K. Das : HOD, EE Dept., Member
4. Dr. Sunipa Roy : HOD, ECE Dept., Member
5. Mr. Chiranjeeb Dutta : HOD, CA Dept., Member
6. Dr. Sucharita Chakrabarti : HOD, ASHU Dept Member.,
7. Mrs. Bapita Roy : HOD, AEIE Dept., Member
8. Mr. Sudip Ghosh : HOD, IT Dept., Member
9. Mrs. Ipsita Saha : HOD, CSE Dept., Member
10. Dr. Kakoli Bandyopdhyay : HOD, FT Dept.
11. Dr. Adhish Kr. Chakrabarty : Registrar, Member
12. Prof.(Dr.) Arun K. Mondal : Controller of Examination, Member
13. Prof.(Dr.) Annapurna Das : Director, Member
14. Mrs. Srabani Kundu : Assistant Professor, Member
15. Dr. Indrajit Bose : Assistant Professor, Member

External Members Present :

16. Prof. (Dr.) Sudhabindu Roy : Department of Electronics & Telecommunicatio Engineering, Jadavpur University
17. Prof.(Dr.) Runu Chakrabarty : Dept. of Food Technology and Bio Chemical Engineering, Jadavpur University
18. Prof.(Dr.) Amalendu Ghosh (Invitee) : Department of Civil Engineering, IEST, Shibpur

Members Absent (External)

1. Prof. (Dr.) Konika Das Bhattacharya : Electrical Engineering Department , IEST, Shibpur

2. Prof. (Dr.) Joydeep Chowdhury : Department of Physics, Jadavpur University
3. Mr. Indranil Roy Chowdhury : Senior manager, Cognizant Technology
(Invitee) Solutions, Kolkata

Members Absent (Internal)

4. Prof.(Dr.) Sisir Kumar Das : Dean R & D

AGENDA of the 2nd Meeting of Academic Council, 2019 was :

1. To confirm and approve the last minutes of AC meeting held on 19th March, 2019.
2. To note and ratify the follow up action taken pursuant to the last meeting on 19th March, 2019.
3. Approval of the modified statement of the Vision of the Institute
4. Approval of proposed ongoing (AICTE 2016) Autonomy Curriculum and Syllabus for 4th year B.Tech. Courses.
5. Approval of proposed Autonomy Curriculum and Syllabus for ongoing 2nd year B.Tech. Courses as per AICTE 2018 model curriculum.
6. Admission status of students in different programs of study for 2019 - 20 academic year.
7. Implementation of Induction Program in new batch (2019-20) as per AICTE 2018 curriculum
8. Even Sem. Result Analysis for last Semester (June 2019) Examinations (Autonomy and MAKAUT).
9. Students' Placement Report
10. Research & Developmental activities of faculty and Students
11. FEMAS 2019 : A Report
12. Faculty and Student Achievements
13. Sports and Extra Curricular activities (including social issues)
14. Any other issue with the permission of Chair

Resolutions :

❖ **Agenda 0 : To start day's proceedings**

- Meeting started at 3.00 p.m. with the Welcome Address by the Principal, Prof. (Dr.) Santanu Kumar Sen, the Chairman of the council. Then he handed over the charge to the member secretary Dr. Sucharita Bhattacharyya, to conduct the day's proceedings.
- Member secretary welcomed the honourable members and with the permission to start the proceedings intimated AC members about the leave of absences of 3 external members and 1 internal member, which were granted.

❖ **Agenda 1 : To confirm and approve the minutes of the last AC meeting held on 19th March, 2019.**

Member Secretary placed the minutes of the last AC meeting held on 19th March , 2019 to the council members and it was confirmed and approved.

❖ **Agenda 2 : To note and ratify the follow up action taken pursuant to the last meeting on 19th March, 2019 which were appreciated by the council members.**

- As per the suggestions of AC members, the finalization of 2nd year autonomy (as per AICTE 2018) Curriculum and Syllabus were to be done and approved by the respective BOS before submission to the Academic Council for final approval to implement in the semester.

Concerned HODs along with their respective syllabus committee considered the issue seriously & took necessary action.

- AC members suggested to maintain the standard & regularities of Technical Skill Development programs to improve the employability status of the institute students considering new challenges offered by the Industries at the time of recruitment when Principal highlighted about two special programs initiated for institute students.

7-level test series in line with the industry requirements started with baseline & preparatory practice tests from 1st year onwards along with other higher years, giving particular emphasis on the progress of pre-final yr. students.

- AC members suggested for effective power back-ups for electric power for the Online Autonomy Examination System for smooth conduction of the long examination schedule.

Apart from 125 KVA Generator set, Online UPS has been installed for immediate power backup.

❖ **Agenda 3 : Approval of the Modified Statement of the Vision of the Institute**

The statement of the Modified Vision of the Institute in line with the Institute Mission has been presented to the AC members and they approved it immediately.

❖ **Agenda 4 : Approval of proposed ongoing (AICTE 2016) Autonomy Curriculum and Syllabus for 4th year B.Tech. Courses**

Proposed Autonomy Curriculum and Syllabus for 4th year (both 7th & 8th sem.) B.Tech. Courses (ongoing batch) were finalized by the concerned HODs along with their syllabus committee members as per the suggestion of respective BOS and were submitted to the meeting and were approved for the present batch after detailed clarification on stream-wise allocation of Sessional & Practical papers.

❖ **Agenda 5 : Approval of proposed Autonomy Curriculum and Syllabus for ongoing 2nd year B.Tech. Courses as per AICTE 2018 Model Curriculum.**

Detailed structure for 2nd year Autonomy Curriculum and Syllabus for (2018-19) B.Tech. Courses as per AICTE 2018 model curriculum which was approved by respective BOS, was discussed including total contact hours and credit points and it was approved by the Academic Council.

❖ **Agenda 6 : Admission status of students in different programs of study for 2019 - 20 academic year.**

A detailed report of the admission status of 2019-20 batch was shown in the meeting where stream wise approved and total intake from WBJEE counselling and AMPAI counselling for B.Tech. courses as well as the same for WBSCTE approved Diploma courses (total 2) were highlighted. External members were happy by looking at almost 100 % admission achieved in streams of CSE, ECE, IT, FT, Diploma EE, BCA, & BHM. The reasons for less admission in streams of AEIE (25 %), EE (58 %) and ETCE (72 %) were discussed in the perspective of industry demands and local market scenario. But as a whole more than 85 % admission including 2 foreign students and 77 lateral entries from Diploma courses were praise worthy.

❖ **Agenda 7 : Implementation of Induction Program in new batch (2019-20) as per AICTE 2018 curriculum**

Schedule and details of a three-week long Induction Program Implementation during (30.7.19-16.8.19) for new batch (2019-20) were presented including orientation program, diagnostic tests, various stress-management programs, Yoga sessions, Creative Arts and Cultural activities, Industry-Mentor meets, Mentoring & Universal Human Values, Familiarization with College, Dept./Branch, programs by eminent external personalities, visit to slum-area school, orphanage, Walk for Water in Local Area, Extra-Curricular Activities in College followed by Feedback and Report on the Program. The activities promoted fast bonding between newly admitted students and the teachers which ultimately helped in better progress in teaching & learning. All members appreciated the efforts given.

❖ **Agenda 8 : Even Sem. Result Analysis for last Semester (June 2019) Examinations (Autonomy and MAKAUT).**

Detailed result analysis of B.Tech. 2nd, 4th & 6th semester autonomy examinations and other MAKAUT even semester examination including 8th semester B. Tech. was shown. In most of the cases results were found to be better in 3rd yr. and 4th yr.

even semester examinations, exception was IT. For EE, it was found that 2nd sem. results was better than 4th sem. All agreed to the fact that better results in higher years were the general trends of Engineering students on an average, which was found to be no exception at GNIT also. Better results of ECE, CSE indicate better quality students' admission as per the demand of present market scenario.

❖ **Agenda 9 : Students' Placement Report**

Overall placement report of 2019 pass out batch including higher studies was found to be 90.69 % on average considering B.Tech., Diploma, BCA, and MCA which was considered to be very good, though the placement of B.Tech. EE & MCA were found to be a little above 60 %, not satisfactory.

❖ **Agenda 10 : Research & Developmental activities of faculty and Students**

In Research & Developmental activities of the institute during the period between (March 19 to December 5, 2019), 7 project proposals were approved under DST, AICTE-AQIS, MHRD including prestigious DST- FIST worth Rs. 60 lakhs, 2 projects were completed under UGC MRP & DST-SERB TARE and 6 are submitted to DST SERB and AICTE AQIS by different departments of the institute expecting some positive outputs. 33 peer-reviewed journal/Conference papers were published during (Jan.- Nov.) 2019 by the faculty members of the institute. Students were also reported to have more than 60 reputed conference publications which were highly recognized. 14 patents were published also during the same period and 23 patents were also submitted in November 2019 by the faculty members of the institute.

❖ **Agenda 11 : FEMAS 2019 : A Report**

GNIT organized 2-days International Conference on Frontiers in Engineering, Management and Applied Science (FEMAS-2019) during 26-27 September 2019 in collaboration with The Institution of Engineers (India), Kolkata.

Total 140 papers from different State/National Institutes/Universities were submitted to FEMAS and 105 were accepted.

Two Keynote address Keynote Speakers Dimitrios Chrissoulidis from Aristeidis Lamprianidis, Greece and Tita Kyriacopoulou, Claude Martineau, France graced the occasion and many other Resource Persons.

Proceedings was published, Book Chapter has been published with ISBN No: 978-93-5391-015-0.

As per MOU with IE(I), the extended version will be published in 5 Springer Series Journals (Scopus Indexed Journals).

Total Paper published from GNIT: 41

06 from ECE; 17 from EE; 09 from CSE; 04 from AEIE; 05 from ASHU

At that point Principal GNIT, Prof. Santanu Kumar Sen highlighted about institute's two focus points for good results in the form of a) increasing no. of 9 pointers and b) decreasing no. of supplementary students where students' attendance, subject teacher's effort, mentorship and motivation to both good and weak students and their counseling in several steps involving their guardians through parents-mentors meeting (PMM) were found to play major roles. Then he declared that next PMM would be held on 11.11.17.



Point of Action : PMM Committee

At that point, in response to a query of Prof. Konika Das Bhattacharyya about the standard and organization of Technical Skill Development program Principal highlighted about two special programs arranged for institute students.

- i) Introduction of 7-level test series for B.Tech. students starting with baseline tests from 1st year along with preparatory practice tests. Principal intimated about the progress of the prefinal yr. students giving emphasis on the development of technical seminar presentation skill as per the present requirement of industry.
- ii) IOT-based Industrial Training & Skill Development program exposure where students from 3rd sem. to 7th sem. would be introduced to two new subjects/ stream/ semester.

Principal expressed his satisfaction over the arrangements and informed that the percentage of campus recruitment at GNIT is satisfactory at the present job scenario.

Point of Action : Concerned Departments & TPO Cell

- ❖ **Agenda 4: Approval of proposed Autonomy Curriculum and Syllabus for 2nd sem. (2018-19) B.Tech. Courses as per AICTE 2018 model curriculum**

At that point, Director GNIT, the Chairman of the Autonomy syllabus Committee emphasized the finalization of 3rd semester autonomy (AICTE 2018) curriculum

and syllabus and approval by the respective BOS and Academic Council before implementation from next semester.

Point of Action : Concerned HODs & Autonomy Syllabus Committee

Point of Action : COE Unit, GNIT

❖ **Agenda 8 : Students' Placement status of 2018 batch**

Overall placement report of 2018 pass out batch showed 79 % placement on average considering B.Tech., Diploma, BCA, and MCA which was considered as good, though the placement of B.Tech. EE & MCA were not satisfactory. But it was found that Diploma EE placement was excellent.

❖ **Agenda 9 : Research & Developmental activities of faculty and student**

1. In Research & Developmental activities of the institute during the period between August 2018 to February 2019, institutional DST FIST project (worth Rs. 60 lacs) as submitted by the faculty members of ECE & ASHU Department and TARE (Rs. 5 lacs) project as submitted by EE & CA faculty members were approved. Also three AICTE AQIS projects including one MODROB from ECE (Rs. 20 lacs, PI Dr. Sunipa Roy), one STTP (Rs. 5 lacs, PI Dr. Sucharita Bhattacharyya) from ASHU and one TGS (Rs. 1.5 lacs, PI Dr. Sucharita Bhattacharyya), also from ASHU were recommended. The achievements were appreciated by the members. Also good nos. of peer-reviewed journal publications, Book Chapters, Reputed conference publications are reported by the faculty members as well as by the students of different departments of the institute which were recognised by the members of the council.

2. As per the guidelines of UGC Ref: DO No. F-1/1/2018 (Journal/CARE) December 2019, about publication ethics and publication misconduct following course to be added as the Research methodology course in the M.Tech second year Curriculum provided in the Annexure.

The title of the course is "Research Methodology and IPR" in M.Tech first year Curriculum provided in the Annexure (w.e.f 2020-2021 academic year).

❖ **Agenda 10 : Faculty and Student Achievements**

Some very special achievements of the institute were reported as follows.

- ✚ Two faculty members from ECE & AEIE were awarded Ph.D. degree, two faculty members from ECE & ASHU submitted Ph.D. thesis and three faculty members from IT, EE, and FT were reported to be enrolled/registered for Ph.D. during July 2018 to March 2019 which was also considered to be a good progress for the institute in research promotion.

- ✚ 66 Students from GNIT were placed in Elite Category and 02 were placed in Elite Gold category scoring 90 and above score in courses done under the SWAYAM-NPTEL local chapter, Guru Nanak Institute of Technology during July-October, 2018. Out of them, 11 candidates ranked in top 1%, 2% and 5% out of total 160 certificates conferred to the Candidates of the institute.
- ✚ Few students were found to secure good ranks at CAT & GATE qualifying examinations and a good no. of students were awarded industry internships from different departments.
- ✚ Many other achievements of faculty members and students were shared in the meeting including information of a highly recognized start-up program by CSE passed-out Sayantan Saha and of 2nd and 3rd position holders Riya Dasgupta and Prastuti Chakrabarty, at B.Tech. final exam. 2018 from FT.

❖ **Agenda 11 : Sports and Extra Curricular activities (including social issues)**

- i) It was informed that the Annual Sports of GNIT was held on 7th of Feb, '19 where glimpses of students' talents were showcased.
- ii) Also various other programs were highlighted including GNIT's hosting of Alumni Meet , Candle March in remembrance of Pulwama Sacrifices of our soldiers, Blood Donation Camp (by EE Dept.,) in collaboration with Calcutta Medical College , Book Fair (by Central Library). Different departments and institute signed MOUs with Govt. institutes/universities as well as reputed public/private organizations.
- iii) Council members also appreciated organizations of centralized programs like National Science Day on 28th Feb. by ASHU Dept. and International Women's Day on 8th March by ASHU Dept. in collaboration with Women's Grievance Redressal Cell GNIT.

❖ **Agenda 12 : ACM ICPC 2018 & Hackathon 2019 - A report**

- i) Principal informed with pride that GNIT conducted the ACM ICPC 2018 India Finals between 21st and 22nd December 2018 along with NITTR, Kolkata and CSJM University, Kanpur, hosting the best computer programming talents across South-Asia. GNIT hosted teams from 14 IITs, 4 IIITs, NITs and other prestigious institutions across India along with the GNIT Home Team named GNIT Blues. Top qualifiers were the

- teams from IIT Roorkee, Dhirubhai Institute, IIT Bombay, IIT Kharagpur who made it from the GNIT site to the all India merit ranks.
- ii) Principal happily announced the successful organization of 3rd edition of Smart India Hackathon 2019 by GNIT, a digital product development competition arranged under the leadership of the MHRD, Govt. of India in association with AICTE involving all technological institutes in India where out of 2 lacs competitors only 8 thousand students across the country reached in the Grand Finale which took place in 48 Nodal Centres (including GNIT, chosen 3rd time in succession) located in different states in India simultaneously for continuous 36 hours during 2-3 March 2019. The problem statements were submitted by different ministries and Industries to find out their software solutions. GNIT was the only private institute in West Bengal to have that honour along with IIT, Kharagpur.
- iii) Principal announced that GNIT Students (Saswata Mukhopadhyay, Team Leader) under JIS Group made the State proud by snatching the CHAMPIONS TITLE in the Grand Finale from Bhubaneswar nodal centre where they won a Prize Money of Rs. 1,00,000 by providing software driven solution to the problem statement submitted by FISTM, which was the largest global provider dedicated to financial technology solutions with Headquartered in Jacksonville .

The Meeting ended with vote of thanks by the Chairman.

S. Bhattacharya

Copy to:

1. Principal
2. Director
3. Dean- Research & Administration,
4. Head of the Departments- AEIE, ASHU, CSE, CA, ECE, EE, FT, HM, IT - with a request to circulate among the AC members of their departments.
5. Controller - Examination Cell
6. Registrar
7. Asst. Registrar
8. Library
9. TPO Cell
10. External Members of Academic Council

ANNEXURE

Course Name: **RESEARCH METHODOLOGY AND IPR**

Course Code :MLC101

Contact hours: 2:0:0

Total Contact hours: 24

Credits: 2

Course Outcomes:

At the end of the course, students will be able to

CO1. Understand research problem formulation

CO2. Analyze research related information

CO3. Follow research ethics and understand the ultimate importance of ideas, concept and creativity

CO4. Importance of IPR for individuals and nations

CO5. Appreciate that IPR protection provides incentive to inventors for further research work

Syllabus Contents:

Module I (6L)

Meaning of research problem, Sources of research problem, Criteria and characteristics of a good research problem, Errors in selecting a research problem, Scope and objectives of research problem. Approaches of investigation of solutions for research problems, data collection, analysis, interpretation, necessary instrumentations.

Module II (6L)

Effective literature studies approaches and analysis Plagiarism, Research ethics

Module III (6L)

Effective technical writing, how to write report, Paper Developing a Research Proposal, Format of research proposal, a presentation and assessment by a review committee

Module IV (6L)

Nature of Intellectual Property: Patents, Design, Trade and Copyright, Process of Patenting and Development: technological research, innovation, patenting, and development. International Scenario: International cooperation on Intellectual property. Procedure for grants of patents, Patenting under PCT.

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2									2
CO2	3	3	3	2	2	1	-	-	-	-	-	2
CO3	2	3	3	3	2	2	3	2	1	-	2	3
CO4	3	3	3	3	3	2	-	-	2	2	-	3
CO5	2	3	3	3	3	1	-	3	-	-	2	3