



GIET UNIVERSITY, GUNUPUR.

SCHOOL OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRONIC AND COMMUNICATION ENGINEERING

Ref No: BoS/Dept/No-/2019-214

Dt: 07.12.2019

Minutes of the Meeting of Board of Studies (BOS), ECE Department

BOS Meeting of ECE was conducted on 7.12.2018 at 9.45AM in Conference Hall, GIET University, Gunupur

Members present:

Sl. No.	Name of the Member	Designation
I. Head of the department		
1	Dr. Spradhan HOD, ECE, GIETU, Gunupur	Chairman
II. Faculty of specialization		
2	All faculties of the Department	Member
III. Experts from outside University		
3	Dr. B. N. Chatterji Former Professor, E&ECE Dept. IIT, Kharagpur	Member
4	Dr. Sukadev Meher Professor, Department of Electronics & Communication, NIT Rourkela-769008, Orissa, India Specialization: Digital Signal Processing, Image Processing & computer vision, Circuits & Systems	Member
5	Dr. Arunanshu Mahapatro Associate Professor, ECE, VSSUT, Burla Specialization: Communication Systems Engineering	Member
6	Dr. Bijayananda Patnaik Associate Professor, ECE, IIIT, BBSR Specialization: Optical Communication, Non-linear Optics, Optical Signal Processing	Member
V. Representative from GIET, University		
	Dr. K. Senthil Kumar Principal, School of Engineering, GIET University	Member
IV. Representative from Industry / corporate sector		
7	Mr. Avinash Kumar Pahi ITS, Principal General Manager, BSNL, Bhubaneswar	Member
V. Postgraduate Meritorious Alumnus		
8	Dr. Basudeba Behera, Assistant Professor, National Institute of Technology, Jamshedpur	Member

The Chairman welcomed all the members who were present for the meeting and introduced external BOS Members to the board and further internal members introduced themselves. The meeting thereafter deliberated on agenda items as had been approved by the Chairman.

Item No. 1: Confirmation of minutes of Last Meeting of the Board of Studies held on 15.05.2019

The following points are discussed and the corresponding resolutions are adopted:

Item No. 2: Modification of the Syllabus Structure of Admission Batch 19-20, ECE (UG)

Item No. 3: Approval of the Detail Syllabus of 2nd Year (3rd and 4th Semester) Admission Batch:-19-20, ECE (UG)

Item No. 4: Modifiaction of the Syllabus Structure of Admission Batch:-19-20, ECE (PG)

Item No. 5: Approval of the Detail Syllabus of Admission Batch:-19-20, ECE (PG)

Item No. 6: PhD Course work Syllabus for the batch 2019-20

Item No. 6: Approval List of internal and external examiners for upcoming even semesters of UG & PG

Item No. 7: Implementation of Thrust area by AICTE in course curriculum of Admission Batch:-UG &PG

Item No. 8: Implementation of industry Oriented in Open Elective in each semester by industry experts

Item No. 8: Approval of add on courses (Course Beyond the syllabus)

Item No. 10: Any other points

- **General Comments:**

- Dr. B. N Chatterji expressed his concern about motivating students towards domain specific courses in induction program, environment and other necessary courses. He expressed his views in signal processing and suggested some good reference book. He emphasized more on research and practical application. He suggested some thrust areas of signal processing on which students and faculties should work jointly for the betterment of society.
- Dr. B.N Patnaik proposed to introduce signal and system and Electromagnetic wave syllabus in 4th sem. that should have a connection in successive semester. In Signal processing and communication system students should be well trained in both theoretical and practical aspects.
- Dr. B.N Patnaik made clear statement that for betterment of students ,workshops should be provided in regular interval from subject expert of a premier institute or industry expert about the new technologies.
- Dr. Sukadev Meher placed a clear picture about the importance of multidisciplinary subjects and emphasized on the need of interdepartmental research. He suggested engaging the students in project work from second year onwards in different domain.
- Dr.Basudeba Behera suggested a complete makeover of the IOT syllabus to make it more compatible with the industrial standard.
- Dr. Sukadev Meher reviewed the VLSI syllabus and suggested to reduce the course content in order to remove the redundant topics.
- Dr. Arunanshu Mahapatro reviewed the content of communication engineering syllabus and found it satisfactory.
- Dr. Sukadev Meher advised to frame a new syllabus covering the fuzzy logic and neural network and advised students should be motivated to do some project in this field in their semester.
- Contents of Professional electives should be revisited keeping in view of the syllabus coverage of core courses, suggested by Dr. B. N Chatterji.
- Inclusion of case studies in professional courses, where ever possible, suggestion by Dr. Mahapatro and Dr. Meher.
- Dr. Mahapatro suggested including a few open courseware courses as equivalent to credited courses offered by GIETU to inculcate self learning. He also recommended robotics, embedded systems etc., courses to be offered as open electives by ECE department jointly with other departments to promote inter- disciplinary activity.

- Members opined to include C⁺⁺ in skilling components.
- **Course related comments**
 - Mr. Pahi proposed to change the nomenclature of the english course titled: '*Basic of communications*'. As the department is offering a degree in communications engineering, it may confuse the stake holders and leads to a misinterpretation that it may be another departmental core subject
 - Dr. Mishra asked to provide a tutorial session for basic science course Single variable calculus and matrix algebra.
 - Dr. Behera aksed to downsize university common syllabus in workshop course.
 - Dr. Mahapatro suggested retaining a general physics course at basic level and introduces one more elective course in advanced physics at advanced level.
 - Domain specific chemistry course with more inclination towards Vapor deposition, silicon batch processing etc., is suggested by Dr. Patnaik.
 - Dr. B. N Chatterji and Dr.B.N Patnaik suggested revising 'Electrical technology' with Basics of circuit theory and DC machines and Basic Electronics with Analog Electronics. He also recommended introducing control systems and Antenna and wave propagation as an elective to facilitate GATE aspirants along with choice for inter-disciplinary professional elective as well.
 - Dr. Meher inquired about Control systems and advanced control system
 - Dr. Mohapatro suggested to introduce Laplace concept to the syllabus of course Signal and systems.
 - Dr.B.N Patnaik recommended offering a separate course on 'Electromagnetic fields and Transmission lines.' as well on antenna and wave propagation.
 - Dr. Mahapatro suggested that faculties and student should go through the NPTEL video and do certified courses in their subject from NPTEL / SWAYAM.
 - *Digital Signal processing* course syllabus reviewd by Dr. B. N Chatterji and he recommended to add filtering concept in syllabus .He advised the students should do more practical in MATLAB in time frequency analysis.
 - *Audio and Speech signal processing as well as computer network syllabus* to be revised with more focus on speech signal processing,Suggested by Dr. B. N Chatterji ,recommended including audio codec and speech encoding concepts.
 - Dr. Patnaik inquired about ANN and advised the faculties and students should be trained with a few topics of deep learning in the applications of ANN.
 - Dr.Meher suggested the inclusion of C-V characteristics of MOS at High & low frequencies in next level course of AECD.

- Dr. Meher recommended including Euler path based stick diagram, Logical effect instead of driving large capacitance, FIN FET and SOMMSOFET to VLSI Design syllabus.
- Mr. Pahi asked to include scripting (Perl recommended) in skilling. Asked to collect a few industry centric requirements and include them as experiments for scripting.

•Professional membership for faculty

Chairman BOS and Dr. Arunanshu mohapatra expressed that a having membership in various professional bodies will be advantage to the faculty to interact with various members to understand the present trends and activities the companies are engaged with.

Dr. B. N Chatterji expressed their opinion about how IEEE membership had given them opportunity to meet many industry person and academicians engaged in R & D which has given them an idea to propose project for DST.

Dr Meher. advised to faculties to make them update as per industrial need and society need such that that can be reflected in the students.

Resolution:

It is resolved that based on the discussion among the members, a membership drive for faculty to be scheduled and organized to explain the advantages and thus motivate them to take up the professional membership in the bodies such as ISTE, IETE, ISOI, IEEE, IEI etc.

•In-house consultancy projects

Chairman BOS and Dr. B.N Patnaik indicated that in-house consultancy projects are sanctioned to inculcate the research among faculty. The projects Sanctioned are :) "HOME automation using IOT", where the students will implement all the experiments on advanced microcontroller application and IOT. The consultancy work is allotted to Mr.Gautam, Asst.Prof of ECE department. "Sign to speech converter", a project module for Biomedical Engineering students at GIETU. This work is allotted for Dr. Parida and R.Gautam with some students to implement the project successfully.

Resolution:

It is resolved that the faculty should plan and execute the in-house projects accurately, so that they can get few more projects from internal as well as from external funding agencies.

➤ **Training programs on Machine Learning and IOT**

Special invitees are informed by the chairman that the faculty is showing interest to train the students on Machine learning and their application. The students should be well educated on the practical application of machine learning and the ideation to prototype model.

Resolution:

It is resolved that the contents are to be design for the course that will provide them Complete a given task/project work.

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The meeting ended up a Vote of Thanks proposed by the Chairman of BOS.



**Chairman BoS
Department of ECE
School of Engineering
GIET University, Gunupur**

Copy Submitted for approval to: 1) Chairman, BOG, GIET
2) Chairman, Academic council, GIET
3) Principal, GIET

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