

**INSTITUTE OF ENGINEERING & MANAGEMENT**

***DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING***

**SUBJECT: IEM-BOARD OF STUDY MEETING-ECE**

DATE: 04.01.2024

TIME: 12.00 Noon

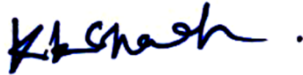

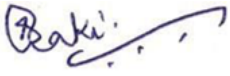
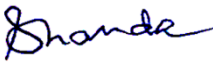



**Agenda: UG Syllabus Proposal for ECE Dept. under IEM's autonomous curriculum  
(3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> sem)**

**MEMBERS OF BOARD OF STUDIES**

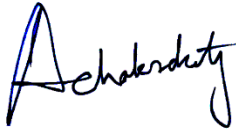
**CHAIRMAN**

1. Dr.Malay Gangopadhyay, Head, ECE Dept.,IEM 

**INTERNAL MEMBERS**

1. Dr. K.K.Ghosh, Senior Professor,ECE Dept.,IEM 
2. Dr. AsimKar,Emiretus Professor,ECE Dept.,IEM 
3. Dr. G.S.Taki, Professor,ECE Dept.,IEM 
4. Dr. S.P.Nanda,Professor,ECE Dept. ,IEM 
5. Dr. Rajib Ghosh, AssociateProfessor,ECE Dept., IEM 
6. Prof. Ratna Chakrabarty, Assistant Professor,ECE Dept,IEM 
7. Prof. Mili Sarkar, Assistant Professor,ECE Dept.,IEM 

8. Prof. Arindam Chakraborty, Assistant Professor, ECE Dept., IEM




9. Prof. Indranil Basu, Assistant Professor, ECE Dept., IEM



10. Prof. Tapan Kumar Rana, Assistant Professor, ECE Dept., IEM



11. Prof. Srijita Chakraborty



## **EXTERNAL MEMBERS**

1. Prof. Dr. Bhaskar Gupta  
Professor, Department of E.T.C.E  
Jadavpur University,



2. Prof. Dr. Manojit Mitra  
Professor, Department of E.C.E  
IEST, Shibpur

0. Avishek Gupta  
HR Manager

## **MOM of BOS Meeting**

1. Digital System Design subject name should be changed to Digital Electronics.
2. In PCCEC301 No.5 module heading should be changed from Microwave devices to Special type of devices. In this module PIN, GUNN, IMPATT, TUNNEL diode should be taught.

- \*Tunnel diode should be omitted in PN junction module.
3. Prof. Bhaskar Gupta has pointed out to change the term from LSI to LTI in Signal System Syllabus .But ultimately it was decided that LSI will remain as it is.  
He has also suggested to add OPENHAM's book in the list of text book for Signal System.
  4. Prof. Manojit Mitra has suggested to add the concepts of Voltage source and Current Source(Dependent and Independent) in the first module of Network Theory
  5. Superposition theorem, Max power transfer theorem should be added in theorem module of circuit theory. A few spellings are incorrect which should be rectified.
  6. S domain should be added in Module 3.
  7. Symmetricity and Reciprocity terms should be changed in Network Theory Syllabus.
  8. Multi port concept should be given in terms of Y and Z parameters. Then ABCD and h-parameters should be taught for two port network.
  9. Mr. Avishek has suggested to develop a course related to interpersonal communication and skill at different levels in the industry. He will send the pedagogy for ESP (third yr onwards.)
  10. All the dignitaries presented pointed out that the content of ESP IV does not match with heading "Indian Geography at a glance".
  11. Computer Architecture should be changed to Computer Organization and Architecture.
  12. Prof. Bhaskar Gupta has suggested to add phase and group velocity in microwave syllabus.  
Prof. Manojit Mitra has suggested to add wave equation, Solution of wave equation, time harmonic fields. Distortion and Condition for minimum attenuation should be taught. Field Theory analysis of Tx Lines should be added at the beginning of Tx Lines before Smith Chart.
  13. Linear and Aperture antenna should be added in antenna part.
  14. The lecture hour for module 2 of Information Theory should be 10.
  15. CMOS design Syllabus should be written properly.
  16. In 701A (1.3) Cavity Resonator should come at first. Non Reciprocal Devices should be introduced. In Module 2 Cavity resonator should be added. In Module 3 Isolator, Circulator, Xyretor should be added.  
Antenna module should be eliminated. Yagi-uda and Log Periodic antenna should be taught in 5<sup>th</sup> sem Microwave and antenna subject.  
Module 4 heading should be Microwave Vacuum Tubes. In this module usage of GUNN,IMPATT, PIN diode should be introduced.  
In module 8 only EMI and EMC will be present.
  17. In Mobile communication 4G should be added with 2G and 3G.
  18. In Embedded System syllabus Software Development is written twice.
  19. In Satellite Communication Module 3 and 4 should combine. Module 6 should be renamed as Link Design for Satellites.
  20. Satellite Network should be added in Module 7.Cryptography can be omitted.

The Consolidated report of gap analysis is discussed in BOS and plan of action is approved.