

GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY, CHEERYAL, KEESARA, MEDCHAL
(AUTONOMOUS)

Department of Electronics and Communication Engineering.
Minutes of the Board of Studies (BoS) Meeting

Venue: Board Room

Time: 10:00 AM

Date: June 29, 2019

Members Present

JNTUH Nominee : Dr. L.Pratap Reddy, Professor, ECE, JNTUH, Hyderabad *RA 18*
Subject Expert1 (from Academia) : Dr.C.B.Rama Rao, Professor, ECE, NIT Warangal *Chaitin Ram*
Subject Expert2 (from Academia) : Dr. Anil Kumar Vuppala, IIIT, Hyderabad *V. Anil Kumar*
Subject Expert3 (from Industry) : Sri C.Ramesh Reddy, Scientist "F", RCI, DRDO, Hyderabad *C.R.Reddy*
Chairman, College Academic Council: Dr. S.Udaya Kumar, Principal, GCET *S. Udaya Kumar*
Chairman, ECE Dept BOS : Prof. B. Hari Kumar, HOD, ECE, GCET *B. Hari Kumar*
GCET Alumni Representative : Mr. RVNR Suneel Krishna *@veelkr*

Internal Members of the ECE Dept. GCET:

1. Dr.R.S.Raju, Professor *RS Raju*
2. Mr.K.Somasekhara Rao, Professor *KS Rao*
3. Dr.C.V.Narasimhulu, Professor *C.V.Narasimhulu*
4. Dr.S.Suryanarayana, Professor *SS Suryanarayana*
5. Dr.P. Vijai Bhaskar, Professor *P. Vijai Bhaskar*
6. Dr. B.Leela Prakash, Professor *B. Leela Prakash*
7. Dr. S. Ramana Murthy, Professor - Absent
8. Mr. OVPR Siva Kumar, Professor *OVPR Siva Kumar*
9. Dr.V.Satya Srinivas, Associate Professor *V. Satya Srinivas*
10. Mr.D.Venkata Rami Reddy, Associate Professor *D. Venkata Rami Reddy*

Agenda:

1. III and IV B.Tech ECE AR18 Syllabus Content
2. III and IV B.Tech AR18 Syllabus Content for Service Courses and Open Electives
3. Modification of Unit- V in Analog and Digital Communications of II Year II semester.
4. Ratification of Panel of examiners for Question Paper Setting and for Practicals for Semester End Examinations for the Year 2019-20.
5. Any other item with the permission of the Chair.

Minutes:

Welcoming Members by the HoD ECE Dept.: Prof. B. Hari Kumar

The Chairman for the ECE Department BoS and the Head of the Department (HoD): Prof. Hari Kumar welcomed members to the BoS Meeting. The meeting started with the introduction of BoS members by HoD.

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1. **Syllabus Content of III and IV B.Tech ECE Courses under AR18 Curriculum**

Members have approved the above point in the agenda with the following suggestions/changes:

1. Few members have expressed that information related to pre-requisites need not be mentioned for core courses in the syllabus. After discussions it is decided to continue mentioning of pre-requisites in the syllabus book for necessary courses.
2. It is suggested to change the titles of Unit II and Unit IV in Control Systems Engineering course as “Time domain analysis” and “Frequency domain analysis”, respectively.
3. The course title of “Principles of Information Theory” is to be modified as “Information Theory and Coding”.
4. Suggested to include topics of CISC, RISC and GPU in Computer Organization course.
5. Guidelines for Internship are to be framed. Suggested to reduce the credits for Internship from ‘2’ to ‘1’ in future revision of the curriculum.
6. Suggested to make VLSI design course as a core course instead of an elective in future revision of the curriculum.
7. Gyroscope and accelerometer topics are to be included in the course “Electronic Sensors” and the text book authored by Doebelin is to be included either as text book or reference book.
8. Suggested to add the following topics in Satellite Communications course:
Classification of satellites and their applications, Introduction to HTS systems.
9. Suggested to reduce syllabus in Digital Signal Processors and Architectures.
10. Suggested to make Digital Design through Verilog HDL course as a core course in future revision. Suggested to include sub-topics from the textbook “Digital Design: Principles and Practices book, by Wakerly” in the course.
11. Suggested to increase credits for Project Oriented Lab in future revision of the curriculum.
12. Suggested to make the following modification in Embedded Systems Design (ESD) course:
 - a. Include the topic on Real time Embedded Systems.
 - b. Combine units II and III in ESD course. Include the topic “Memories and I/O peripherals” in Unit-III.
 - c. Change the title of Unit-IV as Embedded System Software and RTOS.
13. In ASIC Design Course the following modification are suggested:
 - a. Include “Introduction to SOC” in unit-I.
 - b. Make second reference book “Digital Integrated Circuit Design Perspective (2/e), J..M.Rabaey, A. Chandrakasan, and B.Nikolic, PHI 2003 as second text book.
14. In Speech and Audio Processing course, HMM has to be changed to Machine Learning.
15. Suggested to include experiments on the following topics in Embedded Systems Design Lab course:
 - a. Memory test
 - b. I/O peripheral text (testing of ADC/DAC)
 - c. Communication between PC and ES.

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16. Title of EDA tools lab is to be changed as EDA tools and Simulation Lab. This allows inclusion of some experiments related to ECAD using MULTISIM or any equivalent software and experiments on signals, antennas, analog and digital communications using MATLAB/ SCILAB or any equivalent software. Part A: MULTISIM based experiments and Part B: Experiments using MATLAB/SCILAB or any equivalent software.
17. Title of the course GPS is to be changed as GNSS. Suggested to add the topics: LUNARS, GAGAN, IRNSS, and Introduction to GNSS receivers.
18. All other courses presented are approved without any changes/modifications

2. Syllabus Content of III and IV B.Tech Service Courses and Open Electives under AR18 Curriculum

Syllabus of Service courses and Open Electives offered by ECE for other departments has been approved without any modifications.

3. Modification of Unit- V in Analog and Digital Communications of II Year II semester

Modification proposed in the B Tech II year II semester course, Analog and Digital Communications, has been approved.

4. Ratification of Panel of examiners

Panel of examiners for question paper setting and for practical exams for the Semester End Examinations for the Academic Year 2019-20 is accepted. It is advised to send micro syllabus to the examiners for paper setting to give them a better idea about the depth in which the topics are taught.

5. Under any other item: Change of Course Codes

Change of code numbers has been approved for the courses "Speech and Video Processing" (PE-V) and "Embedded Systems" (PE-VI) of service courses (offered to CSE) from 18EC4110 to 18EC4111 and 18EC4206 to 18EC4208 respectively.

The meeting is concluded with gratitude towards members of the Board of Studies.



Prof. B. Hari Kumar
Chairman, ECE Department BoS

Enclosures:

1. Syllabus Content of III and IV B.Tech ECE Courses under AR18 Curriculum
2. Syllabus Content of III and IV B.Tech Service Courses and Open Electives under AR18 Curriculum
3. Modified Unit- V in Analog and Digital Communications of II Year II semester
4. Approved Panel of Examiners for Paper Setting and for Practical Exams