



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date:03-07-2024

Minutes of 18th Meeting of Board of Studies (BOS)

1. Discussion and Approval of Syllabi of B.Tech III & IV semesters, specification of COs and CO-PO articulation matrix:

- The meeting began by informing the Members about the agenda points considering the proposed R23 course structure as the initial agenda point based on the priority.
- The members were told that JNTUK has given the course structure and syllabi for III and IV semester which need to be discussed and can be modified to minor as per the guidelines. It was told that topics that are redundant are going to be removed.
- It was informed by Dr.G.L.N.Murthy that in Probability Theory and Stochastic Processes course, the basics of probability can be deleted if it was studied at the intermediate level.
- Dr.N.V.S.N.Sarma pointed out that the number of hours required is to be considered for retaining or deleting any concepts. It was also felt that being the first time the course is being offered the contents of course can be as it is given by JNTUK. It was also felt the syllabus is too vast and the concerned text book is to be referred and a final decision is to be taken based on the feasibility.
- It was suggested to discuss only those courses in which modifications are to be done.
- In Electronic Devices and Circuits, Hall effect, Fermi Level Intrinsic semiconductors, energy band diagram are studied in Physics, as told by Dr.G.Srinivasulu. Further, it was also informed that Zener diode and its applications were covered in I semester, Basic Electrical and Electronics Engineering.
- Dr.N.V.S.N.Sarma told to make Electronic Devices and Circuits by David A.Bell can be made text book than reference.

- The members were informed about the numerous online resources for the courses.
- In Switching Theory and Logic Design course, Gray Code, 4 bit code, BCD and Excess 3 Codes were discussed in I semester Basic Electrical and Electronics Engineering and can be removed. But it was told to remember the lateral entry students who will join directly in III semester.
- In Switching Theory and Logic Design lab course, Verification of truth tables of logic gates and functional tables of JK Flip Flop are repeated, as told by Dr.G.Srinivasulu.
- Dr.PSrihari Rao enquired about the simulation platforms that are to be used.
- In Electronic Devices and Circuits lab course, it is better to add filter part to the rectifier experiments and perform the complete analysis as suggested by Dr.P.Srihari Rao.
- Dr.N.V.S.N.Sarma advised to rearrange the experiments in Electronic Devices and Circuits lab so that the experiment is done only once the students complete the theoretical concepts. It was also suggested to make all the students to perform same experiments so that lab is executed effectively. It is advised to make use of Digital Storage Oscilloscopes to the possible extent.
- In Electronic circuit Analysis Lab, based on the possibility students are to be encouraged to make use of open-source software for simulation the results of which can be verified using hardware.
- It was advised by Dr.Sarma to sought the possibility of using Class AB push pull power amplifier in place of Complementary symmetry class B push pull Amplifier.
- In EMWTL, based on the possibility, Transmission lines can be made the introductory chapters as suggested by Dr.N.V.S.N.Sarma. In such a case instead of Sadiku, another book that describes transmission lines well can be included as First Text Book Further, Quarter wave transformer can be deleted. It is suggested to refer websites like Geeks for Geeks as well as Sanfoundry.com that contain short answer questions with elaboration.
- In Analog Communications, Double side band suppressed carrier concepts can be deleted, as told by Dr.N.V.S.N.Sarma. If possible it is suggested to include a book with MATLAB programming as reference book. It was told to restrict to coherent detection and can skip Quadrature Null effect. Extension of Super

heterodyne receiver principle and additional circuits can be removed as, suggested by Dr.P.Sri Hari Rao.

- The contents of Embedded Systems and IoT course, that will be offered to III semester Mechanical students, are discussed and the members satisfied.

2. Review of Action Taken Report (ATR) on the minutes of 17th BoS meeting held on 05-08-2023

- All the members were told that the recommendations made in earlier BoS meeting, dated on 05-08-2023 for improving the teaching and learning activity in the department were either implemented or under implementation.

3. Approval of SWAYAM courses for Minor/Honor program for the A.Y 2024-25:

- The members were informed about the courses that are to be offered under Honor program. It was pointed by Dr.P.Sri Hari Rao that , when the Honor program is in ECE , why the communication courses are not offered . It was told by Dr.N.V.S.N.Sarma that , two communication courses one on wireless communication and another on Information Theory and coding can be done by the students under MOOCs. However, the same courses can not be a regular course.
- Dr.P.Lachi Reddy informed that , as the M.Tech Specialization is VLSI, affiliating university suggested in previous meeting to include VLSI related courses under Honors program.
- Dr.A.M.Prasad told to include two courses in next BOS meeting for approval.
- Under Minor program courses, it is suggested to include Electronic Measurements and Instrumentation course. The course Microprocessors can be renamed as principles of Embedded Systems there by which the students may get interest as suggested by Dr.N.V.S.N.Sarma. Dr.P.Sri Hari Rao suggested to rename the course Fundamentals of VLSI as Fundamentals of IC Design.
- Dr.A.M.Prasad suggested to have lab also for the course Electronic Measurements and Instrumentation course. It is also suggested by Dr.P.Sri Hari Rao to include fundamentals of IOT applications with out any clash with the courses that were already offered as an open elective.

4. Information on Teaching Learning Process:

- It was informed that senior faculty who have been awarded Ph.D are deputed for teaching core subjects and in most of the cases senior faculty are going to handle 1st or 2nd year courses.
- The course hand outs in the department have been prepared in line with outcome-based education.
- It was informed that bridge classes are being conducted as well as remedial classes for the weak learners who fail to clear. The students are periodically motivated about the manner how to get succeeded in GATE.
- PEGA certification for students has been taken place in the previous academic year and the same is geeing repeated this year also, as mentioned

5. Information and discussion on COs, POs & PSOs attainment and ATR for 2020-24 batch

- The members were told informed about the attainment process and it was told that during the framing of new regulations care is being taken to strengthen the attainment.

6. Information on Academic Performance of the students for the A.Y 2023-24

- The members have been informed about the academic performance of the students for the Even semester courses for the A.Y:2023-24 leaving II semester.
- It was informed that the courses with poor pass percentage were identified and remedial courses have been arranged for students having backlogs.


7. Information & Discussion on R&D and Training & Placement Activities for the A.Y: 2023- 24:

- The statistics of R&D activities were put before the members by the BoS chairman. It was told that good number of publications were done by the faculty in the department and statistics of the R&D achievements were put before the members.
- It was told that quality publications in the department are increased
- Department faculty have been sanctioned Rs.2.05 Lakh towards seed money carrying out advanced research.
- It was also told that numerous R & D initiatives are being taken place in the department.

- It was informed that during A.Y: 2023-24, two faculty have been awarded Ph.D and 16 members are currently pursuing the same.
- Consultancy work has been initiated in the department and efforts are on to have MOUs with reputed organizations for strengthening the department.
- The placement statistics of the department for the Academic Year 2023-24 were put before the members. It was informed that maximum pay package is Rs.16 Lakhs.

8. Information on events organized & Attended for the A.Y 2023-24:

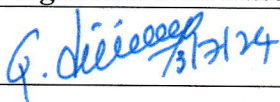
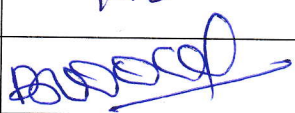
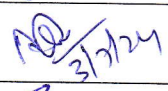
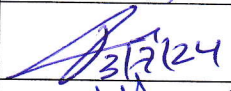
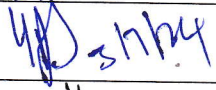
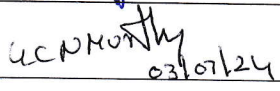
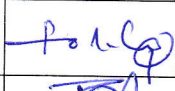
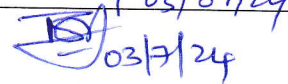
- The chairman informed the members about the various activities that have been organized in the department. To strengthen the faculty, students and non-teaching staff different activities are being organized in the department. However, it was mentioned that the as main agenda is syllabus framing only the other things can be carried out as per the department requirements.
- The achievements of the students during the A.Y:2023-24 was informed to the members.


 Chairman
 Board of Studies

HEAD
Department of Electronics &
Communication Engineering
Lakireddy Bali Reddy College of Engineering
MYLAVARAM, Krishna Dt., Andhra Pradesh

BOARD OF STUDIES(BOS)

03.07.2024

S.No	Name & Designation	Position in BOS	Signature with Date
1.	Dr.G.Srinivasulu, Professor & HOD	Chairman	 3/7/24
2.	Dr.A.M.Prasad, Director, Admissions Professor of ECE, University College of Engineering, JNTUK, Kakinada	University Nominee	Attended online
3.	Dr. N.V.S.N.Sarma, Director, Indian Institute of Information Technology, Trichy	External Member, Subject Expert	Attended online
4.	Dr.P.Srihari Rao, Professor, Department of ECE, NIT, Warangal	External Member, Subject Expert	Attended online
5.	Dr.John Bedford Solomon, Principal Engineer, DFT, NXP Semiconductors, Bengaluru	External Member, Industry	Attended online
6.	Dr.B.Anil Kumar, Associate Professor, Department of ECE, KL University, Hyderabad	Alumni	Attended online
7.	Dr.E.V.Krishna Rao, Professor	Internal Member	kh
8.	Dr.B.Ramesh Reddy, Professor & Vice Principal	Internal Member	
9.	Dr.M.Venkata Sudhakar, Professor	Internal Member	 3/7/24
10.	Dr.P.Lachi Reddy, Professor	Internal Member	 3/7/24
11.	Dr.Y.Amar Babu, Professor	Internal Member	 3/7/24
12.	Dr.G.L.N.Murthy, Professor	Internal Member	 03/07/24
13.	Dr.B.Poornaiah, Professor	Internal Member	 03/07/24
14.	Dr.T.Satyanarayana, Professor	Internal Member	 03/7/24