GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY, CHEERYAL, KEESARA, MEDCHAL
(AUTONOMOUS)
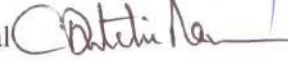### Department of Electronics and Communication Engineering.
Minutes of the Board of Studies (BoS) Meeting

Virtual Meeting: https://meet.google.com/njn-ajrs-dzp.

Time: 2:00 PM
Date: November 5, 2020

Members Present

JNTUH Nominee : Dr. L.Pratap Reddy, Professor, ECED, JNTUH, Hyderabad

Subject Expert1 (from Academia) : Dr.C.B.Rama Rao, Professor, ECED, NIT Warangal

Subject Expert2 (from Academia) : Dr. Anil Kumar Vuppala, IIIT, Hyderabad

Subject Expert3 (from Industry) : Sri C.Ramesh Reddy, Scientist "G", RCI, DRDO, Hyderabad

Chairman, College Academic Council: Dr. S.Udaya Kumar, Principal, GCET

Chairman, ECE Dept BOS : Dr.S.Suryanarayana, HOD, ECE, GCET

Dean-SE&CE : Prof. B. Hari Kumar, Professor, ECED, GCET

GCET Alumni Representative : Mr. RVNR Suneel Krishna

Internal Members of the ECE Dept. GCET:

1. Dr.R.S.Raju, Professor
2. Mr.K.Somasekhara Rao, Professor
3. Dr.P. Vijai Bhaskar, Professor
4. Dr.P. Srihari, Professor
5. Dr. B.Leelaram Prakash, Professor

6. Mr. OVPR Siva Kumar, Professor
7. Mr.S.Bhujanga Rao, Professor
8. Dr.V.Satya Srinivas, Associate Professor
9. Mr.D.Venkata Rami Reddy, Associate Professor

Agenda:

The following points are to be discussed and finalized.
1. Course structure of B. Tech (ECE) Program under AR20
2. Syllabus of ECE Courses and Service Courses up to II Year II Semester under AR20
3. Panel of Examiners for Paper Setting and Paper Valuation for the Academic Year 2020-21
4. Equivalence of courses between AR18 and AR16
5. Additional courses/ Substitute courses to be studied for re-admitted students under AR18 from AR16 and a few individual cases of readmitted from AR16 to AR18.
6. Any other item

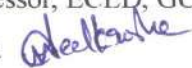**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY, CHEERYAL, KEESARA, MEDCHAL (AUTONOMOUS)**
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<u>**Minutes:**</u>

Welcoming Members by Dean- SE&CE: Prof. B. Hari Kumar

Prof. B. Hari Kumar, Dean-SECE and Dr. S.surya Narayana- Chairman, BOS have welcomed all the BoS members to the Meeting. The meeting started with the introduction of BoS.members by Dean-SECE. He mentioned the changes made in the course structure of AR20 compared to that of AR18.

1. **Discussion and seeking the approval of proposed ECE course structure of B.Tech program under AR20:**
   - Prof. B. Hari Kumar presented the proposed course structure of AR20.
   - Members suggested/recommended the following points while reviewing the structure:
   - Prof. CB Rama Rao has suggested that offering the Basic Electronics course as service course to Mechanical and Civil engineering students is common in prestigious institutions. Prof. B.Hari Kumar replied that as per AICTE model curriculum, the course is not offered to ME and CE, however we have offered three courses of ECE are offered as open electives viz. i) Electronic measuring Instruments   ii) Principles of Communication Systems and iii) Bio-medical instrumentation to all other branches.

   Prof B.Hari Kumar also explained that
      o To improve the communication skills of the students and for better employability, 4 additional courses related to English and 2 courses on Logic and Reasoning are introduced in AR20.
      o Semiconductor devices and Circuits and the associated laboratory course are introduced for ECE and EEE students in First year Second semester and these courses will be taught by the Dept. of ECE.
      o Artificial Intelligence and Cyber Security courses are introduced as Mandatory courses for the first time.
      o It is also recalled that the course structure of AR-20 has already presented on 17th October 2020 in an informal meeting with members of BOS.
   - Dr. L.Pratap Reddy suggested that a thorough discussion should take place within the Department about the course structure and about introducing new courses as per the requirements of students admitted in GCET. Curriculum should be framed/designed such that it must be   useful to them throughout their life after graduation. It has to provide options for his first job in various fields like IT/Govt Job/PSUs/NGO. He also pointed out that there should be a balance between the courses related to Electronics and Communication Engineering.
   - Members suggested changing the title of the "C- Programming and Data Structure courses" as Programming for Problem Solving -I and Programming for Problem Solving –II is not advisable. The title must be specific such as C Language and Data Structures.
   - Prof. B.Hari Kumar replied that as per the model curriculum prescribed by AICTE it has been changed like that. Principal Dr. S. Udaya Kumar also gave a reply that as this course is common to all branches including CE and ME, the total course had to be split into two parts.

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- Members had a lengthy discussion on "Instrumentation and Control Systems" course. As the course is very important in the present-day industry scenario and IoT has emerged as a key component in various fields, they suggested to split the above course as two different courses i) Electronic Measurements and Instrumentation and ii) Linear control Systems. Shri.C. Ramesh Reddy also has suggested to give importance to Control systems as it is useful in many Defense applications.

- Members enquired about the contents of the syllabi in courses of Artificial Intelligence, Cyber security, Statistics for Machine learning and Machine learning. Dr.P.Si .hari and Prof B.Hari Kumar replied and explained the topics in them.

- All the external members strongly recommended having Microwave Engineering and Radar Engineering as two different courses. They suggested that Radar Engineering course can be offered as one of the Professional Electives.

The members also suggested shifting the "Computer Networks" course introduced in 4th year 2nd Semester to 3rd year 2nd Semester as it is useful for placement technical interviews.

Shri. V. Anil Kumar asked for the statistics of Professional electives offered and opted by students in the previous years so that we can remove un-opted elective courses. He also enquired about the criteria of offering the elective courses. Prof B.Hari Kumar said that the elective is offered to a section only when a minimum of 20 students opt for the elective course from that section.

2. Discussion and seeking the Approval of Syllabus of ECE Courses and Service Courses up to II Year II Semester in AR-20

Prof B.Hari Kumar presented the syllabus of all the courses offered for ECE students, service courses and open electives offered to other branch students. He informed to all the me bers that the syllabus in most of the courses has been retained as in AR18 and displayed the syllabus of new courses and the courses where the changes are made. The forum in principle approved the syllabus of AR-20 courses including the service courses up to II Year II Semester and the syllabus in the open electives offered by ECE Department.

3. Discussion and seeking the Approval of Panel of Examiners for Paper Setting and Paper Valuation for the Academic Year 2020-21

Prof B.Hari Kumar presented the Panel of Examiners for Paper Setting and Paper Valuation for the Academic Year 2020-21. The forum has ratified the list.

4. Discussion and seeking the Approval of Equivalence of courses between AR18 and AR16

Prof B.Hari Kumar presented the Equivalence of courses between AR18 and AR16 and explained the procedure followed in finalizing the list as per the guidelines of JNTUH. The members have approved the same.

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5. **Discussion and seeking the Approval of Additional courses/ Substitute courses to be studied for re-admitted students under AR18 from AR16 - Discussion on a few individual cases (List attached)**

Prof B.Hari Kumar presented Additional courses/ Substitute courses to be studied for re-admitted students under AR18 from AR16 as per the guidelines of JNTUH. He presented individual cases. The members approved the same. Members also have ratified the additional courses/ substitute courses that are to be studied by the students who were re-admitted into AR18 from AR16 Regulations.

At the end, Shri. C.Ramesh Reddy suggested to have more emphasis on imparting practical design skills and self learning skills during the course work. He also suggested playing online videos of the courses from various Foreign/Indian Universities for better learning environment. He also appreciated the introduction of Design thinking course in the curriculum.

Prof. B. Hari Kumar replied that the department has introduced the concept of Project Based Learning (PBL) in which students will be divided into groups to do projects related to that course. He also mentioned that Student Peer Learning concept is introduced in the department wherein senior students guide their juniors in selected areas. It is providing good results and a healthy academic environment is being created in the department because of these practices.

Prof CB Rama Rao finally informed that the suggestions made by the BOS members may be taken on a positive note and to implement the changes as per the flexibility of the structure. Dr. L. Pratap Reddy also has opined that the recommendations given by the members may not be implemented mandatorily this time but can be kept as futuristic plans during the next revision.

The meeting is concluded with Vote of thanks proposed by Dr.S.Surya Narayana, HoD-ECE.

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