



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of Eleventh (11<sup>th</sup>) BoS (ECE) Meeting held on 13/05/2023

15/05/2023

### Members Present:

S. no.	Name	Organization
1.	Dr. Venkata Mani	Asso. Professor, NIT, Warangal
2.	Dr. L.Nirmala Devi	Professor, UCE, OU, Hyderabad
3.	Sri. S.Venkateswara Rao	Director, AMD, Hyderabad
4.	Dr. S. M. Ahmed	Head, Principal Scientific Officer, Central Instrumentation Laboratory, HCU, Hyderabad
5.	Dr. Sachin Chaudhari	Professor, IIIT Hyderabad
6.	Dr. Chandana Viswanadham	AGM, BEL, Bangalore
7.	Dr.D. Ram Krishna	Professor, UCE, OU, Hyderabad (Special Invitee)
8.	Dr. N. V. Koteswara Rao	Internal BoS Member
9.	Dr. P. Narahari Sastry	Internal BoS Member
10.	Dr.A.Vani	Internal BoS Member
11.	Dr. A.Supraja Reddy	Internal BoS Member
12.	Sri M V Nagabhusanam	Internal BoS Member
13.	Dr. M. Ramana Reddy	Internal BoS Member
14.	Mrs. N.Dhana Lakshmi	Internal BoS Member
15.	Sri. T.Aravinda Babu	Internal BoS Member
16.	Dr. K.Suman	Internal BoS Member
17.	Sri. G.V.Pradeep Kumar	Internal BoS Member
18.	Dr.K.Satyanarayana	Adjunct Professor
19.	Faculty	ECE Dept. faculty, CBIT
20.	Dr. D. Krishna Reddy	Chairman BoS

**Leave of Absence:**

The meeting has commenced with welcoming the BoS members by the Chairman, Board of Studies. He thanked the contributions made by members of the BoS Committee in the curriculum development so far. The Chairman, BoS started the meeting by reading the agenda of the meeting.

1.	Prof Mohammed Zafar Ali Khan	Professor, IIT Hyderabad
2.	Sri Komma Siva Prakash Reddy	Senior Member Technical Staff, Oracle India Pvt Ltd Bangalore
3.	Sri. M. Kannan	Scientist – G, RCI, Hyderabad
4.	Dr. A D Sarma	Internal BoS Member

The Chairman, BoS informed the members that the recently released AICTE model curriculum, syllabus of standard institutions and suggestions/feedback of the stake holders (Industry, Employer, Alumni, Parents, Students and Professional Societies) along with the Program Exit Survey are considered in developing the curriculum.

**Minutes:**

I	<b>To approve the minutes of 10<sup>th</sup> BoS meeting</b>
	The minutes of 10 <sup>th</sup> BoS meeting are approved.
II	<b>To discuss the syllabus of III and IV semesters of BE (ECE) under R-22 Regulation.</b>
	<p>This is approved with the following recommendations:</p> <ol style="list-style-type: none"> <li>1. A detailed discussion was carried about all courses being offered in III and IV semesters of R-22 regulation as below: <ol style="list-style-type: none"> <li>(i) Dr.Sachin suggested that CO to PO-PSO mapping should be on a scale of ‘1’ to ‘3’ and not ‘0’ to ‘3’. Therefore, he suggested to map to a minimum of ‘1’. <b>Action Taken:</b> As per the suggestion, the CO to PO-PSO mapping tables of all courses of all programs are modified accordingly.</li> <li>(ii) Dr.Satyanarayana suggested to introduce “Beagle Boards” in IoT lab in addition to the existing Hardware. <b>Action Taken:</b> The suggestion is well taken and the possibility of introducing the experiments based on these boards will be explored.</li> <li>(iii) In “Signals and Systems” Course, Dr.Sachin and Dr.Nirmala suggested to reorganize the contents of the course and accordingly rename the chapter titles. Dr.Nirmala suggested referring to Osmania University syllabus. Also, it was suggested to introduce Universally accepted notations, titles of chapters etc. <b>Action Taken:</b> As per the suggestion, the course contents are reorganized and the chapter titles are modified accordingly. DTFS is also added in IV un it</li> </ol> </li> </ol>

	<p>(iv) Chairman, BoS, informed the committee about renaming the R-20 courses “Basics of Data Structures” and “Network Analysis” as “C and Data Structures” and “Network Analysis and Synthesis” respectively in R-22 curriculum. <b>Action Taken:</b> The new course titles are approved.</p> <p>(v) Laboratory courses: Dr. Sachin advised to include the links of virtual lab experiments and make sure the links are working. <b>Action Taken:</b> Links to virtual lab experiments are included and the links are verified for their working.</p> <p>(vi) Laboratory courses: As the lab courses are done in teams, Dr.Sachin advised to map the PO related to team work to the scale of ‘3’ <b>Action Taken:</b> As per his suggestions, PO9 is mapped to COs as ‘3’.</p> <p>(vii) Network Analysis and Synthesis lab – Dr Sachin suggested to include Synthesis in one of the Course objectives. <b>Action Taken:</b> The Course objectives are modified to include Synthesis part also.</p> <p>(viii) In the course “Antenna and Wave propagation”, Dr.Ahmed informed that there is huge demand for antenna expertise and advised to ensure that basic concepts are covered well. Dr.Nirmala suggested to rename the title of Chapter-2 <b>Action Taken:</b> All the basic concepts are included. Chapter-2 title is modified as “Antenna Analysis”.</p> <p>(ix) In the course “Digital System Design”, Dr.S.V.Rao enquired if Verilog HDL is included. <b>Action Taken:</b> Dr.Anuradha, Associate Professor, clarified that Verilog HDL is included in Unit-IV and Unit-V.</p> <p>(x) In the course “Probability Theory and Stochastic Process” - Dr Sachin suggested to include latest editions of text books and reference books”. <b>Action Taken:</b> Latest editions of the books are included.</p> <p>(xi) Modelling and Simulation lab: Dr.Nirmala suggested that the number of experiments in Part-A and Part-B should be uniform. <b>Action Taken:</b> The number of experiments in each part is made uniform.</p>
III	<b>To present the scheme &amp; structure of V to VIII semesters of BE (ECE) under R-22 Regulation.</b>
	<p>Dr. P.Narahari Sastry presented the scheme &amp; structure of V to VIII semesters of BE (ECE) under R-22 Regulation.</p> <p>(i) Chairman, BoS informed that due to limitation on number of credits, two courses in R-20 curriculum (Analog Communications and Digital Communications) are combined into a single course in R-22 curriculum. Accordingly existing corresponding lab courses are also combined.</p>

	<p>(ii) Courses on “Principles and Applications of AI” and “Basics of Machine Learning” : Dr. Sachin advised to verify the contents of the two courses and ensure that the contents of these courses are not common. Also he advised to include programming part/coding in the syllabus. Dr.Sachin and Dr.Nirmala suggested to explore the possibility of accommodating these two courses in two different semesters. Dr.Sachin advised to refer to the course “ Statistical Methods in AI” offered by IIIT, Hyderabad. Dr.Viswanadham suggested to check if there is a possibility of combining the two courses (with three chapters from AI and two chapters from ML).</p> <p><b>Action Taken:</b> It is resolved to combine the two courses “Principles and Applications of AI” and “Basics of Machine Learning” into one Program Elective.</p> <p>(iii)Dr.Viswanadham and Dr.Sachin suggested to ensure that the mini projects are a combination of Hardware part and software part.  <b>Action Taken:</b> Dr.Siva Priyanka, Asst. Prof, informed that the same is being practiced.</p> <p>(iv) Dr.Sachin advised to accommodate the course “IoT and Applications” in V or VI semesters as it does not require any pre-requisites.</p> <p><b>Action Taken:</b> The suggestion is well taken and the possibility of offering this course in lower semesters will be explored.</p> <p>(v) Dr.Sachin advised that the three core courses on “ EMTL”, “AWP” and “MRE”, may be combined as two courses and the resulting credits may be used to accommodate one new latest course in demand such as ‘Mobile Communication”, “5G”, etc.</p> <p><b>Action Taken:</b> The suggestion is well taken. The “Radar” part of the course “MRE” are now included in the course “Satellite Communication”. “Wave guides” and “MW components” parts of the course “MRE” are accommodated in “EMTL” and “AWP”. A new course on “Microwave Techniques” is introduced as Professional electives.</p>
IV	<p><b>To present the scheme &amp; structure and syllabus of I to IV semesters of ME(CE) under R-23 Regulation.</b></p>
	<p>Sr.M.V.Nagabhushanam, ME (CE) Coordinator, presented the scheme &amp; structure and syllabus of I to IV semesters of ME(CE) under R-23 Regulation.</p> <p>The committee appreciated the inclusion of new courses such as “5G and Beyond” and “Industrial IoT”, “Markov Chain and Queuing Systems”, “Deep Learning Techniques for Signal Processing”, “Machine Learning for Next Generation Communication Systems”, etc.</p> <p><b>This is approved.</b></p>

V	<b>To present the scheme &amp; structure and syllabus of I to IV semesters of ME(ES&amp;VLSID) under R-23 Regulation.</b>
	Dr.M.Ramana Reddy, ME (ES&VLSID) Coordinator, presented the scheme & structure and syllabus of I to IV semesters of ME(ES&VLSID) under R-23 Regulation.  The committee appreciated the inclusion of new courses such as “IoT and RTOS based Embedded System Design”, “Mixed Signal and RF IC Design”, etc., and new lab courses such as “IoT and RTOS based Embedded System Design Lab” and “RTL Synthesis Simulation and Verification Lab”, etc. <b>This is approved.</b>
VI	<b>To discuss the syllabi for Service courses, Open electives and Audit courses offered in UG R-22 &amp; PG R-23</b>
	Syllabi of service courses is presented by Dr.A.Vani. List and contents of Open electives and Audit courses are presented by Smt.B.Neeraja. This is approved.
VII	<b>To present the list of courses under “BE Degree with Additional Minor Engineering” in</b>  <ul style="list-style-type: none"> <li><b>i. Communications and Networking</b></li> <li><b>ii. Embedded Systems &amp; IOT</b></li> <li><b>iii. Signal Processing</b></li> <li><b>iv. VLSI</b></li> </ul>
	Smt.J.Mounika presented the list of courses under “BE Degree with Additional Minor Engineering”. Chairman, BoS informed that this list is based on the courses offered by NPTEL during last year. The list will be updated based on the courses to be released this year.
VIII	<b>To present the list of courses under “BE (ECE) with Honors Degree”.</b> Smt.D.Sony presented the list of courses under “BE (ECE) with Honors Degree”. Chairman, BoS informed that this list is based on the courses offered by NPTEL during last year. The list will be updated based on the courses to be released this year. This is approved
IX	<b>To present the list and syllabi of “Value added and Certification courses”.</b> Dr.Khaleel Rehman presented the list and syllabi of “Value added and Certification courses”. <b>This is approved.</b>
VIII	<b>Any other item with the permission of chair</b>
	<ul style="list-style-type: none"> <li>(i) Chairman BoS presented that in UG, some of the PECs have two credits only so as to meet the limitation of total credits allotted for PCC, PEC and OEC as 91 that is finalized at the institute level in Common BoS meeting. <b>Action Taken:</b> Same is approved</li> <li>(ii) Chairman BoS presented the details of the facility extended by JNTUH through an MoU with VEDA IIT. As part of this MoU, the students are facilitated to take courses offered by VEDA IIT in place of the regular courses for earning the required credits in VII and VIII semesters. Chairman, BoS sought the suggestions from the BoS members whether the same can be facilitated in our department.</li> </ul>

**Action Taken:** Dr. Nirmala informed that Osmania University is not encouraging such transfer of credits as there is no control and monitoring on TLP and evaluation process of such courses, as they are being conducted at VEDA IIT.

We would like to seek the approval through E-mail from the members of BoS for any further modifications in the curriculum if required.

The members are requested to offer the comments, if any, within a week from the date of receipt of this communication. If no comments are received, the minutes will be taken as confirmed.

Copy to:

1. Members of BoS
2. Principal for information



Prof D. Krishna Reddy  
Head and Chairman, BoS

Dept. of ECE

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