THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015
Department of Electronics and Communication Engineering
MINUTES OF THE MEETING

Name of the meeting   : Board of Studies Meeting, ECE Department

Date of the meeting   : 11.05.2019

Time   : 10.30 A.M

Duration   : 3 Hours

Venue   : ECE Seminar Hall, Thiagarajar College of Engineering, Madurai

The following points were discussed:

1. Scheduling of courses, based on CDIO framework, for B. E (ECE) programme for the students admitted from the Academic year 2018-19 onwards.
2. Detailed Syllabi. based on CDIO framework, for all core courses of B.E (ECE) programme for the students admitted from the Academic year 2018-19 onwards.
3. Categorization of courses in Choice Based Credit System (CBCS) for B. E (ECE) programme for the students admitted from the Academic year 2018-19 onwards.
4. Any other matter

Attended by:

Dr.S.J.Thiruvengadam — Chairman, Board of Studies (ECE) / Head of ECE Department, TCE, Madurai

Dr. Balaji Srinivasan — Professor, Department of EE, Indian Institute of Technology Madras

Dr.M.Ganesh Madhan — Professor, Department of Electronics Engineering, Madras Institute of Technology, Chennai

Dr.S.Manivannan — General Manager, Siemens Ltd., Bangalore

Dr.T.Ganesan, — CEO RFMMIC, Bangalore

Mr.V.V.Pathy — Head Business Development – Education. Keysight Technologies, Bangalore

Dr. S.Deepak Ram Prasath — Project Manager, Thiagarajar Telekom Solutions Ltd. , Madurai

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Faculty Members:

1. Dr.V.Abhaikumar	Professor and Pricipal	
2. Dr. S. Rajaram	Professor	
3. Dr. B. Manimegalai	Professor	
4. Dr.S.Md. Mansoor Roomi	Associate Professor	
5. Dr.R.Alaguraja	Assistant Professor	
6. Dr. T. Aruna	Assistant Professor	
7. Dr.S.Kanthamani	Associate Professor	
8. Dr.K.Hariharan	Associate Professor	
9. Dr. M.S.K. Manikandan	Associate Professor	
10. Dr.A.Banumathi	Associate Professor	
11. Dr.A.Thenmozhi	Associate Professor	
12. Dr. B. Yogameena	Associate Professor	
13. Dr. B. Sathyabama	Associate Professor	
14. Dr.M.N.Suresh	Assistant Professor	

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15. Dr. K. Rajeswari	Assistant Professor	
16. Dr. N.B. Balamurugan	Associate Professor	
17. Dr.S.Ponmalar	Assistant Professor	
18. Dr.V.Vinoth Thyagarajan	Assistant Professor	
19. Dr. G. Ananthi	Assistant Professor	
20. Dr. E. Murugavalli	Assistant Professor	
21. Dr.V.N.Senthil Kumaran	Assistant Professor	
22. Dr.D. Gracia Nirmala Rani	Assistant Professor	
23. Dr. P.G.S. Velmurugan	Assistant Professor	
24. Dr.V.R. Venkatasubramani	Assistant Professor	
25. Dr. K. Kalyani	Assistant Professor	
26. Dr.A.Tamilselvi	Professor/English	
27. Dr.S.Rajaram	Professor/English	
28. Dr.M.Mutharasan	Assistant Professor/Mathematics	

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#	Points Discussed	Action Plan	Responsibility	Target date
1.	Credit Distribution, Categorization of Courses, Scheduling of Courses, Courses of Study, and Scheme of Examinations	Dr.S.J.Thiruvengadam welcomed the members of the Board of studies and presented the Agenda of the meeting followed by Credit Distribution adhering to AICTE/UGC guidelines and Scheduling of Courses for B.E. ECE Programme for the students admitted in the academic year 2018-19 onwards. The following recommendations are suggested: • Dr.Balaji Srinivasan suggested to introduce centre of excellence in multidisciplinary areas to achieve more employability. • Dr.V.Abhai kumar suggested to identify problems for Hackathon. Principal emphasized that the role of a teacher should be as a mentor/ goal setter. • Hackaton has to be conducted in department level and the best batch can be motivated for entrepreneurship and work can made as IP (intellectual Property). • For all the courses, the syllabus has to start with applications for the purpose of motivation.	Dr.S.J.Thiruvengadam	-
2.	NIRF ranking, NAAC, CDIO and placement	Dr.S.J.Thiruvengadam briefed about the status of TCE with respect to NIRF ranking, NAAC and Placement Activities. Dr.V.Abhaikumar explained about the CDIO initiatives and framework.	-	-
3.	TCE proficiency scale	S.J.Thiruvengadam presented about the TCE proficiency scale and CDIO standards to the BOS members.	-	-

#	Points Discussed	Action Plan	Responsibility	Target date
4.	Scheduling of Courses	Dr.S.J.Thiruvengadam presented the changes that has been incorporated in scheduling of courses: • "Microprocessor" has been changed from Theory cum Practical (TCP) to separate theory and separate practical course. • Problem solving using computers is made as TCP course. • "RF active circuits" has been introduced in curriculum. • "Data Structures and Algorithms" has been made as a core course in curriculum • "System Design Laboratory" has been changed as "Communication System Design Laboratory"	-	-
5.	18EC310 Complex Analysis and Numerical Methods 18EC410 Random Process and Linear Algebra	Dr.M.Mutharasan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • In 3rd semester "Complex analysis and linear algebra" can be covered while in 4th semester "Numerical method and optimization" can be handled. • "Random process" can be convered into "18EC340 Signal and systems"	Dr.M.Mutharasan	17.05.19
6.	18EC320 RF Transmission Lines and Passive Circuits	Dr.B.Manimegalai presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • "Waveguide portion" can be removed • Topics on passive can be compressed • "Impedance matching" should be given weightage • The name of the course can be changed as "RF passive Devices and Circuits" • A mobile phone can be taken as an example to motivate students.	Dr.A.Thenmozhi	17.05.19

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7.	18EC330 Electronic Circuits	Dr.N.B.Balamurugan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • To start with "nullators and narrator" can be included in the syllabus • The syllabus is too heavy. Topics on "biasing of BJT and MOSFET" can be handled in 2nd semester itself.	Dr.N.B.Balamurugan Dr.V.Vinoth Thyagarajan	17.05.19
8.	18EC340 Signals and Systems	Dr.P.G.S.Velmurugan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • A book titled "Streamlining Digital Signal Processing" "by "Randy Yates" can be included as leaving resources.	Dr.P.G.S.Velmurugan	17.05.19
9.	18EC350 Microprocessors and Microcontrollers	Dr.K.Hariharan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • Assembly language programming may be made as module	Dr.K.Hariharan	17.05.19
10.	18EC360 Programming for Problem Solving	Dr.S.Ponmalar presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • "Python language" can be included in the syllabus • The title may be changed as 'C programming'.	Dr.S.Ponmalar	17.05.19
11.	18EC370 Microprocessor and Microcontroller Laboratory	Dr.K.Hariharan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • Lab experiments should contain device application programming. • Case studies can be more emphasized.	Dr.K.Hariharan	17.05.19
12.	18EC380 Electronic Circuits Laboratory	Dr.V.Vinoth Thyagarajan presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
13.	18ES390 Design Thinking	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-

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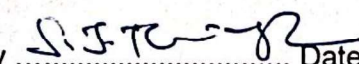**Department of Electronics and Communication Engineering**

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14.	18EC420 Antenna and Wave Propagation	Dr.B.Manimegalai presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • Topics on feed lines –microstrip , coaxial has to introduced • An application such as radar, cellular , 5G can be taken to explain the antenna navigation • The order of courses in the curriculum should be"passive – active-antenna" .Correspondingly the lab can be shifted or the course can be changed as TCP.	Dr.B.Manimegalai	17.05.19
15.	18EC430 CMOS VLSI Systems	Dr.S.Rajaram presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
16.	18EC440 Signal Processing	Dr.P.G.S.Velmurugan presented the course and the syllabus has been passed for approval in Academic council meeting. . The following changes are suggested: • Random process can be included as a Module.	Dr.P.G.S.Velmurugan	17.05.19
17.	18EG460 Professional Communication	Dr.A.Tamilselvi presented the course and the revised syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • Floating elective course in English can be offered so that students can opt for it in any semester. • There is a requirement for "Spoken English" course as an elective for the benefit of rural students. • Topics from "3 idiots, books authored by Chetan bhagat, Mahabaratha, Ramayana, books authored by R.K.Narayan and Harry Potter" can be included to cater interest of the students.	Dr.A.Tamilselvi Dr.S.Rajaram	17.05.19
18.	18EC470 Radio Frequency and Antenna Laboratory	Dr.B.Manimegalai presented the course and the revised syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • Experiments on measurements can be handled as 1st experiment.	Dr.B.Manimegalai	17.05.19

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19.	18EC480 Signal Processing Laboratory	Dr.P.G.S.Velmurugan presented the course and the syllabus has been passed for approval in Academic council meeting	-	-
20.	18EC490 Project Management	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting.	-	-
21.	18EC510 Data Communication Networks	Dr.M.S.K.Manikandan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • Topics on "Network security" can be included in syllabus	Dr.M.S.K.Manikandan	17.05.19
22.	18EC520 RF Active Circuits	Dr.B.Manimegalai presented the course and the syllabus has been passed for approval in Academic council meeting	-	-
23.	18EC530 Analog and Digital Communications	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting	-	-
24.	18EC560 Image Processing	Dr.B.Yogameena presented the course and the syllabus has been passed for approval in Academic council meeting, The following changes are suggested: • Some portions can be removed from the lab category.	Dr.B.Yogameena	17.05.19
25.	18EC570 Data Communication Networking Laboratory	Dr.M.S.K.Manikandan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: • "Python language" can be included in lab.	Dr.M.S.K.Manikandan	17.05.19
26.	18EC580 Analog and Digital Communication Laboratory	Dr.S.J.Thiruvengadam presented the course and the syllabus has been passed for approval in Academic council meeting	-	-
27.	18EC620 Control Systems	Dr.P.G.S.Velmurugan presented the course and the syllabus has been passed for approval in Academic council meeting	-	-
28.	18EC630 Data Structures and Algorithms	Dr.S.Ponmalar presented the course and the syllabus has been passed for approval in Academic council meeting	-	-
29.	18EC680 Data Structures and Algorithms Laboratory	Dr.S.Ponmalar presented the course and the syllabus has been passed for approval in Academic council meeting	-	-

Prepared by .... Date: 11.05.2019

Approved by .... Date: 11.05.2019