

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 (Online via Google meet), ECE Department
Date of the meeting : 03rd December 2022
Time : 10.00 A.M
Duration : 2 Hours

The following points were discussed:

1. Scheduling of courses, Curriculum and Syllabi for II semester B. E (ECE) programme for the students admitted from the Academic year 2022-23 onwards.
2. Syllabus, based on CDIO framework, for elective courses for B.E (ECE) programme for the students admitted from the Academic year 2020-21 onwards.
3. Syllabus of elective courses for M.E (Communication Systems) programme for the students admitted from the Academic year 2021-22 onwards.
4. Revised assessment pattern for courses of B.E (ECE) programme and M.E (Communication Systems) programme for the students admitted from the Academic year 2021-22 onwards.
5. Any other matter.

Attended by:

Dr.S.Rajaram	Chairman, Board of Studies (ECE) / Professor and Head of ECE Department, TCE, Madurai
Dr. Balaji Srinivasan	Professor, Department of EE, Indian Institute of Technology Madras
Dr.T.Purusothaman	Professor, Department of ECE, Govt. College of Technology, Coimbatore
Dr S.Manivannan	Principal Key Expert (R&D), Siemens Healthineers India LLP, Bangalore
Dr.D.Sriram Kumar	Professor, Department of ECE, National Institute of Technology Trichy
Mr.P.Chinnadurai	Sr. Project Leader, Jasmine InfoTech Pvt. Ltd., Chennai

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Faculty Members:

1. Dr.B.Manimegalai Professor
2. Dr.S.Md. Mansoor Roomi Professor
3. Dr.R.A.Alaguraja Associate Professor
4. Dr.S.Kanthamani Associate Professor
5. Dr.K.Hariharan Professor
6. Dr M.S.K. Manikandan Associate Professor
7. Dr B. Yogameena Professor
8. Dr B. Sathyabama Professor
9. Dr.M.N.Suresh Associate Professor
10. Dr K. Rajeswari Associate Professor
11. Dr N.B. Balamurugan Professor
12. Dr.V.Vinoth Thyagarajan Assistant Professor
13. Dr G. Ananthi Assistant Professor
14. Dr E. Murugavalli Assistant Professor
15. Dr.K.Vasudevan Assistant Professor
16. Dr.D.Gracia Nirmala Rani Associate Professor
17. Dr P.G.S. Velmurugan Associate Professor
18. Dr.V.R. Venkatasubramani Assistant Professor
19. Mr M.Senthilnathan Assistant Professor
20. Dr.N.Ayyanar Assistant Professor
21. Dr.G.Prabhakar Assistant Professor
22. Dr.M.Senthilarasi Assistant Professor
23. Mrs.J.Shanthi Assistant Professor
24. Dr.S.P.Suriya Prabha Assistant Professor / Maths

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#	Points Discussed	Action Plan	Responsibility	Target date
1.	Agenda of the Meeting	Dr.S.Rajaram welcomed the members of the Board of studies and presented the Agenda of the meeting. Dr.V.R.Venkatasubramani displayed the statement of Vision, Mission, Programme Educational Objectives, Programme Outcomes, Programme Specific Outcomes of the B.E (ECE) programme. Also Dr.V.R.Venkatasubramani displayed the Scheduling of Courses, syllabus for the Mathematics courses, Second semester courses, and elective courses for B.E(ECE) and M.E(CS).	-	-
2.	Start of New UG Programme under ECE Department	Dr.S.Rajaram explained about the plan of starting a new UG programme from the academic year (2023-24) onwards. Various names were suggested for the new programme. The board members decided ' <i>Computer and Communication Engineering</i> ' as the name of the new programme.	-	-
3.	22EC210 - Matrices and Linear Algebra	Dr.S.P.Suriya Prabha presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • The syllabus must follow the sequence - Vector space, Orthogonality, Matrix eigen value and Linear transformation. • Can introduce topics on Numerical methods. • MATLAB can be used to understand the concept. • Section-wise topic identification in text books can be removed. 	Dr S.P. Suriya Prabha	09-12-2022
4.	22EC310 Probability and Statistics	Dr.S.P.Suriya Prabha presented the course and syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Introduce Probability theory and its axioms, Baye's theorem, Functions of random variable and transformation of random variable • Representation of statistical parameters can be the first topic to handle. • Case studies can be included. • MATLAB can be used to understand the concept. 	Dr S.P. Suriya Prabha	09-12-2022
5.	22EC410 Optimization	Dr.S.P.Suriya Prabha presented the course and syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Can introduce basics of Convex Optimization. • Can include topics on Back propagation. • Time devoted to Transportation topic can be reduced. • MATLAB can be introduced for visualization and better understanding of concepts. 	Dr S.P. Suriya Prabha	09-12-2022
6.	22EC220 Electronic Devices	Dr N.B.Balamurugan presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Can include topics on Zener diode. • Student should learn characteristics of devices via simulation and hardware setup. Assignments can be given to learn characteristics via simulation. Hardware setup experiments can be included in the third semester course '<i>Analog Circuit Design</i>'. 	Dr N.B. Balamurugan	09-12-2022

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7.	22EC230 Electric and Magnetic Circuits	Dr B.Sathyabama presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Give explicit statement on circuit analysis in time domain, both in course outcome and in syllabus. • Topics on Laplace Transform can be included in the third semester course 'Network analysis and synthesis'. 	Dr B.Sathyabama	09-12-2022
8.	22EC240 Digital Circuit Design (TCP)	Dr.D.Gracia Nirmala Rani presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Experiments on asynchronous sequential circuit can be included • Equal weightage can be given to combinational and sequential logic circuits in the practical. • Can include Digital PLL in the 'Analog and Digital Communication' course. 	Dr D Gracia Nirmala Rani	09-12-2022
9.	22EC250 Field Theory and Transmission Lines	Dr.S.Kanthamani presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Topics on Transmission lines can be handled first followed by field theory. • Include the text book 'Engineering Electromagnetics" by William Hayt. 	Dr.S.Kanthamani	09-12-2022
10.	22EC260 Problem Solving using Computers (TCP)	Dr.M.Senthilarasi presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Make 'Let us C' book written by Yashwanth P Kanetkar as Text Book. • A book title 'Advanced C – Tips and Techniques' can be included as reference book. 	Dr.M.Senthilarasi	09-12-2022
11.	18ECRG0 / 21ECRG0 - Satellite Image Analysis	Dr B.Sathyabama presented the course and the syllabus has been passed for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Specify the number of hours for each module. • The syllabus is too heavy. It is suggested to keep one course on Satellite Image and one course on Medical Image and a separate course on Image analysis. • Overlaps can be trimmed and the main course can be mandated and then application can be dealt in the following elective courses. • Tools can be handled with examples on medical imaging and remote sensing. 	Dr B.Sathyabama	09-12-2022
12.	18ECEB0 / 21ECEB0 - Fundamentals of Machine Learning	Dr.N.B.Balamurugan presented the course and the revised syllabus has been passed for approval in Academic council meeting without change. The suggestions are: <ul style="list-style-type: none"> • To ensure the availability of data sets, tools, library functions for handling the course. • Explain the functional analysis using tools. 	Dr.N.B. Balamurugan	09-12-2022
13.	21CNRC0 - Energy Harvesting in Wireless Sensor Networks	Dr.G.Ananthi presented the course and the syllabus has been for approval in Academic council meeting. The following changes are suggested: <ul style="list-style-type: none"> • Can include topics on IoT. • Can introduce topics on 'Graph Neural Network'. 	Dr.G.Ananthi	09-12-2022

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14.	Assessment pattern for courses of B.E (ECE) programme and M.E (Communication Systems) programme for the students admitted from the Academic year 2021-22 onwards	Dr.V.R.Venkatasubramani presented the new Assessment pattern for courses of B.E (ECE) programme and M.E (Communication Systems) programme for the students admitted from the Academic year 2021-22 onwards.	-	-
15.	General recommendations	Students have to be encouraged to refer and study prescribed standard text books. Lots of problems have to be given to students such that it become mandatory for them to refer the books for finding the solution.	-	-

V R Venkata Subramani

Prepared by: Dr.V.R.Venkatasubramani
Date: 03.12.2022

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Approved by: HoD/ECE

This Board of Studies Meeting is conducted online and hence the member signatures are not present.