

COIMBATORE INSTITUTE OF TECHNOLOGY, Coimbatore – 641014

(Government aided Autonomous Institution)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Minutes of the Board of Studies Meeting held on 10.12.2018

Members present

LIST OF EXTERNAL MEMBERS

S.No.	Name of the Member
UNIVERSITY NOMINEE	
1.	Dr.M. C. Bhuvaneshwari Professor & Head Department of EEE PSG College of Technology, Peelamedu Coimbatore 641 004 Phone: +91 94426 25926 Email: mcb@eee.psgtech.ac.in
SUBJECT EXPERTS	
2.	Dr. V. Sankaranarayanan Professor Department of Electrical and Electronics Engineering National Institute of Technology Tiruchirapalli-620015 Phone: +91 94876 27002 Email : sankariitb@gmail.com
3.	Dr. P. Valsalal Professor Department of Electrical and Electronics Engineering College of Engineering Anna University Guindy Chennai – 600 025 Phone: 94450 76080 Email: valsalal@annauniv.edu
INDUSTRY EXPERTS	
4.	Mr. K. Durga Sharan Director Versa Drives Private Limited 38B- Vadakku Thottam Post, Idigarai, Coimbatore - 642 022. Email: durga@versadrives.com
5.	Dr. Viswanath Kumar Ganesan Tata Consultancy Services Phase - 2, Block A, Second Floor, IIT-Madras Research Park, Kanagam Road, Taramani, Chennai - 600113 Cell:- +91 9282179467 Mailto: viswanath.ganesan@tcs.com

6.	Mr. Saravanakumar Soliton Technologies Pvt. Ltd, 683, 15th cross, 22nd main, JP Nagar 2 phase, Bangalore – 560078 Ph : +91 95380 81883 Email: saravanakumar@solitontech.com Send copy to : srividhya@solitontech.com
7.	Dr. Jayashree Vajpai Professor Department of EEE MBM College of Engineering Jodhpur, Rajasthan Ph: 96366 97501 jvajpai@gmail.com

LIST OF INTERNAL AND CO-OPTED MEMBERS

S.No	Name of the Members	S.No	Name of the Members
Internal members			
1	Dr.V.Manikandan	13	Dr.S.Gunasekaran
2	Dr.E.Chandira Sekaran	14	Mr.S.Nanda Kumar
3	Dr.S.Suja	15	Dr.R.Rajalakshmi
4	Dr.J.Devi Shree	16	Ms.M.Mynavathi
5	Dr.S.Geetha	17	Dr. M. Packia Sudha
6	Dr. G. Manavaalan	18	Ms. M. Radha
7	Ms.D.Prema	19	Ms.S.Rathna Priya
8	Ms.K.Vanithamani	20	Dr. K. Suresh
9	Ms.P.Devaki	21	Ms.M.L.Merlin sajini
10	Dr.A.Kavithamani	22	Mr.P.Vinodkumar
11	Dr.S.Elango	23	Mr.B.Vasanthan
12	Ms. A. Priyadarshini		
Co-Opted Memebrrs			
1.	Ms.Y.Hamsavarthini	4.	Mr. B. Sahul Hammeed
2.	Ms. M. Sarayu	5	Mr. M. Venkat Kumar
3.	Ms. C. Koushika	6	Mr. R. Chandrasekaran

DISCUSSIONS AND RECOMMENDATIONS

1. Dr.S.Vasantharathna, the chairperson of BOS, on behalf of CIT management and EEE department welcomed the members and proposed the agenda for the meeting.
2. The agenda includes
 - a. To discuss the overall curriculum structure along with Elective Courses, one credit courses and mandatory courses for UG and PG (EMBEDDED AND REAL TIME SYSTEMS - ERTS) for 2019 regulation.
 - b. To finalize new elective syllabus contents for existing curriculum (2015 regulation).

Semester 1

3. Dr. Viswanath Kumar Ganesan suggested to include basics of mathematics such as data types, charts in Mathematics I and to relate the importance of Science & Engineering to be viewed as data with mathematics to design the Engineering instruments.
4. Mr. Saravanakumar, Mr. K. Durga Sharan and Dr. P. Valsalal suggested that the mathematics syllabus should include some engineering related problems in order to make the students to realize the real time applications.
5. All the board members suggested to include introduction to logical programming instead of Python programming and Dr. Jayashree Vajpai suggested the course title as Principles of Programming.
6. Finally it was resolved to include the course as Designing algorithm with flowchart and Pseudo code (P= 3 hours, C= 1.5) instead of Python programming course
7. Dr.S.Vasantharathna and Dr.V.Manikandan suggested to consider the syllabus content of Engineering Physics as Material science (2 Units), Fiber optics, Lasers and Quantum Physics.
8. Mr. Saravanakumar suggested to include 3D tool design using simulation software in Engineering Graphics course.
9. Dr.S.Vasantharathna suggested to consider only the contents: Carpentry, Fitting, sheet metal and Plumbing.

Semester 2

10. Dr.V.Manikandan suggested to include vector calculus in the course Mathematics II.
11. Mr. K. Durga Sharan and Dr.V.Sankaranarayanan suggested to include the topics mechanical transmission systems and IC engines in the course Basic Civil and Mechanical Engineering.
12. Mr. K. Durga Sharan and Dr. Viswanath Kumar Ganesan, Dr.S.Geetha and Ms.A.Priyadharshini suggested to change the course title for problem solving through C programming as C programming and Data bases.

13. Dr.V.Sankaranarayanan and Mr. K. Durga Sharan accepted the tentative proposed chapters for the course Biology for Engineers and Dr. Jayashree Vajpai instructed that this course should be handled by a Faculty having the knowledge specific to specialization.
14. Dr.M.C.Bhuvaneshwari suggested to maintain the proper evaluation scheme for all mandatory courses.
15. Dr.R.Rajalakshmi and Ms.M.Radha suggested to include Basics of Electrical Engineering lab (P= 3, C = 1.5) with Wiring for Home appliances.
16. Dr. Dr.S.Vasantharathna suggested to include a experiment for reading the blue print of wiring diagram.
17. Dr.V.Manikandan and Dr.E.Chandira Sekaran suggested to add an experiment for PCB Fabrication.
18. Dr.V.Manikandan and Dr.G.Manavalan suggested to use PCB Fabrication Machine for PCB designing.
19. Dr.R.Rajalakshmi and Ms.K.Arthi suggested to modify the syllabus of Science of Creativity by including Plagiarism and copy rights

Semester 3

20. Mr. Saravanakumar suggested to include latest lighting based IC technology for current source in Linear Integrated Circuits course.
21. Dr. S. Suja, Ms.P.Devaki and Dr.A.Kavithamani also suggested to include IC based current source in Linear Integrated Circuits course.
22. Mr. K. Durga Sharan suggested the book “Basics of Operational amplifiers by Texas Instruments” for Linear Integrated Circuits course.
23. All members discussed elaborately on AICTE curriculum for Basic Electrical Engineering course contents to be included or not included and was resolved to introduce the contents as a part of induction program/ Respective courses.
24. Ms.K.Vanithamani and Dr.S.Elango suggested to reduce the content of DC machines and transformers course by including the complete design of transformer as last unit.

Semester 4

25. Dr.V.Sankaranarayanan and Mr. K. Durga Sharan, Ms.D.Prema suggested to change the course Network and synthesis as Networks and Systems by including impulse response and signals systems topics, removing one port network, graph theory and shifting state space analysis to control systems course.
26. Dr.M.C.Bhuvaneshwari suggested to include Verilog Designing in both theory and laboratory course of Digital Integrated Circuits.

27. Dr. Jayashree Vajpai suggested to include the complete design of PMSM and BLDC motor in Synchronous and Induction Machines course as it is the futuristic technology.
28. Dr.S.Vasantharathna and Dr.E.Chandira Sekaran suggested to include Intellectual Property Rights (IPR) in Entrepreneurship Basic Course .

Semester 5

29. Dr. Jayashree Vajpai appraised that the syllabus content of Generation of Electrical Energy is nicely framed in such a way that it covers the entire generation system perfectly.
30. Mr. Saravanakumar, Dr.S.Geetha and Mr.B.Vasanthan suggested to include I²C and SPI communication oriented lab experiments in Embedded Processor Lab and Designing of embedded processor as an elective course.

Semester 6

31. Dr.V.Sankaranarayanan suggested to include tutorials/ Lab for the course Data Structures and Algorithm.
32. All board members accepted to proceed the Main project in three phases as trail instead of Mini Project. (Phase 1 (Identification of Problem, Literature survey, Modeling and simulation – 50 Marks) Phase 2 (Prototype development, Report writing and Viva Voce = 110) and Phase 3 (Publication in selected journal and conference list/Patent - 40).

Electives

33. Dr.V.Sankaranarayanan and Dr.M.C.Bhuvaneshwari suggested to include VLSI course.
34. Dr.Durgasharan Krishnamoorthy and Dr.V.Sankaranarayanan suggested to include Optimal control system or Robust control course.
35. Dr. Jayashree Vajpai suggested to include Power system design course.

36. Mr. Saravanakumar suggested to include Analog and Digital Communication and Microwave and antennas design courses.
37. Dr.V.Sankaranarayanan suggested to change the courses Digital control system and Hybrid smart vehicles as Nonlinear control systems and Electric vehicle respectively.
38. Mr. Saravanakumar and Dr. P. Valsalal suggested to add FMEA, Product development life cycle, Root cause analysis and Certification processes for EMI and power quality issues in Electronic Product Design course.
39. Mr. K. Durga Sharan and Mr. Saravanakumar suggested to include Model based design courses (PCB designing, Matlab-Simulink and SPICE) for all the courses wherever possible.

PG Curriculum (ERTS)

40. Mr. K. Durga Sharan and Dr.V.Sankaranarayanan suggested to add competent experiments in Embedded Processor Laboratory to the level of PG course.
41. Mr. Saravanakumar suggested to use ZYNQ (FPGA with ARM) board based on Xilinx.
42. Dr.V.Sankaranarayanan and Dr.J.DeviShree suggested to include Wireless communication sensors in electives.
43. Dr.Durgasharan Krishnamoorthy suggested to reduce the content for PLC unit in Automation and control for Industrial systems and focus on anyone automation strategy.
44. Dr. P. Valsalal suggested to give the specific title for unit 1 instead of Introduction in all the elective courses.
45. All board members suggested to modify the courses based on process control, motion control and control system design to embedded systems.
46. Dr. P. Valsalal suggested to reduce the content of Embedded Control of Drives course and for all the elective courses.

UG -2015 Regulation – Elective Course

47. Ms.M.Sarayu proposed the syllabus for Intelligent Techniques for Electrical Engineers.
48. Ms.R.Chandrasekar proposed the syllabus for Deregulated Power Systems and Electric Vehicles.
49. Dr.V.Sankaranarayanan suggested to replace the unit hybrid vehicles as Energy storage systems in the course Electric Vehicles.
50. Dr. Viswanath Kumar Ganesan offered the contents for one credit course optimization problems and deep learning and in addition to that Mr. Saravanakumar suggested to add Big data analysis.

New PG course introduction

The chairman of BoS introduced the new PG Course, M.E. Power Systems and Renewable Energy for the academic year 2019-2020.

The proposed curriculum structure is approved by the Board of Studies members, by discussing about the core subjects as follows.

- Linear Algebra and Stochastic Processes
- Power System Operation and Control
- Design of Power Plant Technology
- Power Electronics for Power and Energy Systems

CBCS and AICTE based curriculum will be followed for this course.

Finally, the chairperson delivered the vote of thanks.

Dr.S.Vasantharathna
Chairperson, BoS, EEE

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