

COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE
(Government Aided Autonomous Institution)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MINUTES OF THE MEETING

The third Board of Studies (BoS) meeting of the department of Electrical and Electronics Engineering for finalizing the UG (Electrical and Electronics and Engineering) curriculum and syllabus – 2019 regulation for 3rd and 4th semester was held on **22.02.2020, Saturday at 10.00 A.M** in **Embedded system laboratory (L-415)** with the members nominated as follows.

NAME OF THE MEMBERS
CHAIRPERSON-BOS
Dr.S.Vasantharathna, Professor and Head Department of EEE, Coimbatore Institute of Technology, Coimbatore
UNIVERSITY NOMINEE
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
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INDUSTRY EXPERTS
Mr. K. Durga Sharan Director Versa Drives Private Limited 38B- Vadakku Thottam Post, Idigarai, Coimbatore - 642 022. Email: durga@versadrives.com
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INTERNAL AND CO-OPTED MEMBERS

S.No	Name of the Members	S.No	Name of the 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.Elango	17	Dr. M. Packia Sudha
6	Dr.S.Geetha	18	Ms. M. Radha
7	Dr. G. Manavaalan	19	Ms.S.Rathna Priya
8	Ms.D.Prema	20	Dr. K. Suresh
9	Ms.K.Vanithamani	21	Ms.M.L.Merlin sajini
10	Ms.P.Devaki	22	Mr.P.Vinodkumar
11	Dr.A.Kavithamani	23	Mr.B.Vasanthan
12	Ms. A. Priyadharshini	24	Ms. K. Arthi

CO-OPTED MEMBERS

1	Ms.E.Suganya	3	Ms.C.Kaushika
2	Ms.C.Christina		

The Chairperson Dr. S. Vasantharathna welcomed the members of the Board of Studies meeting for finalizing the UG (Electrical and Electronics and Engineering) curriculum and syllabus – 2019 regulation for 3rd and 4th semester. She proposed the curriculum and syllabi for the UG course and mentioned that the uniform structure is being followed as per Controller of Examinations norms. She also emphasized the credit distribution with respect to AICTE norms including universal human values as mandatory course.

- Credit distribution of various category (PCC, PEC, FC, OEC and OCC) of curriculum were compared between proposed CIT 2019 regulation and AICTE curriculum.
- Board members unanimously suggested to maintain the credit distribution as per the AICTE structure without much deviation.
- Dr.S,Vasantharathna, Dr.V.Manikandan and Dr.E.Chandira Sekaran suggested that the latest subjects recommended by AICTE on Data Analytics and E-mobility are to be introduced in their higher semesters exclusively for EEE students with an emphasis towards EEE domain as programme core instead of open elective.

Semester-3

- All the board members acknowledged the syllabus contents of **TRANSFORMS, PROBABILITY AND RANDOM VARIABLES** by comparing 1st and 2nd semester mathematics courses and applications to be taught towards EEE domain.
- Six open electives are offered as per AICTE but only 2 open electives are offered at CIT. Hence board members suggested to increase the open electives.
- Mr. K. Durga Sharan suggested to include symmetrical components in three phase circuits unit in **Electric Circuit Analysis** course. Dr.E.Chandira Sekaran agreed to have the symmetrical components as introduction in corresponding unit.
- Mr. K. Durga Sharan suggested to refer 4th edition of the book John D. Kraus and Daniel A. Fleisch, "Electromagnetics with Applications" instead of 5th edition in **Electromagnetic Fields** course.
- Mr. K. Durga Sharan suggested to include "Electric Machinery" by A. E. Fitzgerald, and "Transformer and Inductor Design Handbook" by Colonel WM. T. Melyman in **DC machines and Transformers** course. He also suggested to introduce PMDC concepts used for robotics and aeronautical applications. Dr. V. Sankaranarayanan, Mr. K. Durga Sharan and Dr.E.Chandira Sekaran suggested to have the design of cooling tubes as qualitative treatment and to concentrate more on inductor design with selection of materials.
- Dr.M. C. Bhuvaneshwari, Mr. K. Durga Sharan and Dr. V. Sankaranarayanan recommended to introduce Bode plot analysis for all the analog application circuits wherever possible. Dr.E.Chandira Sekaran suggested to introduce switching circuits as fifth unit in **Analog Circuits** course by removing already existing content of 5th unit.
- Dr.M. C. Bhuvaneshwari suggested to have only the introduction of asynchronous circuits and Digital logic families from analog circuits course to be brought under **Digital Integrated Circuits** course. Dr. V. Sankaranarayanan and Dr.M. C. Bhuvaneshwari also suggested to change the title as **Digital Electronics**.
- All the board members acknowledged the syllabus contents of **DC Machines and Transformers Lab** course with inclusion of PMDC and inductor design experiments.
- Dr.M. C. Bhuvaneshwari suggested to combine Adders, Subtractors, Serial adder and Parallel adder as single experiment and Magnitude Comparator and ALU as another experiment and Multiplexer, Demultiplexer, Encoder and Decoder as single experiment in **Digital Integrated Circuits Lab** course with 6 experiments in Analog circuits and 6 experiments in Digital circuits analog circuits. Therefore they suggested to change the title as **Analog and Digital Electronics Lab**. She also suggested to remove Digital clock experiment.

Semester-4

- All the board members appreciated for the inclusion of PMSM, and BLDC motors in the syllabus of **Synchronous and Induction Machines** Course and suggested to organize the units as follows: Unit 1- Synchronous Generator, Unit-2 – Synchronous Motor, Unit -3- PMSM and BLDC motor are to be emphasized more, Unit-4- Three phase induction motor, Unit-5- Single phase induction motor (Reducing No.of Lecture hours) with the change in title as "**AC Rotating Machines**". SRM may be removed from the syllabus.

- Dr.V. Sankaranarayanan and Dr. Viswanath Kumar Ganesan suggested to include frequency response of the RC, RL filters using Bode plots for application oriented analysis and to consider Unit-5 as Unit-1 in **Networks and Systems** course.
- Mr.K.Durga Sharan recommended to include bidirectional meters (NET metering) and Dr. Viswanath Kumar Ganesan and Mr.K.Durga Sharan suggested to project based learning of the subject, and the proof of concept can be clearly explained using the animated videos and participative learning.. Dr.V. Sankaranarayanan also suggested to add real time applications in **Measurements and Instrumentation** course.
- Dr.V. Sankaranarayanan suggested to name as prerequisites of IC manufacturing technology as video presentation and also he suggested to not to have specific concentration for PID controller in Unit-5. Mr.K.Durga Sharan suggested to include Bode plot analysis for Linear IC applications in **Linear Integrated Circuits** course. All the members suggested to keep case study and term project out of total lecture hour contribution.
- All the board members acknowledged the syllabus contents of **Transmission and Distribution** course with inclusion of introduction to grid systems in Unit-1 instead of Unit-5.
- Board members unanimously suggested to have the OOPs concept with change in title as “OOPs and Programming”. Dr. Viswanath Kumar Ganesan suggested to have introduction of Python in Unit-5 with application oriented concepts in **OOPs and C++ for Electrical Engineers** course. But other members suggested that the syllabus will be vast if Python is included.
- Dr.V. Sankaranarayanan and Mr.K.Durga Sharan suggested to include PMSM experiments instead of cascaded operation and Potier triangle experiments in **Synchronous and Induction Machines Lab** course.
- Mr.K.Durga Sharan recommended to conduct the Regulated power supply experiment with discrete components in **Linear Integrated Circuits Lab** course.
- Dr.M. C. Bhuvaneshwari suggested to consider NPTEL online courses for One Credit course.
- The Members approved the revised Mission, PEOs, POs and PSOs
- The Members acknowledged the one credit course “AGILE Technology” for Regulation 2015.
- The Members suggested not to include web link address in the references of the syllabus.

At last, Chairperson concluded the meeting with the main points discussed in the forum which are used to enhance the knowledge and skill of the students as per the current industry scenario and the meeting ended well. Other members are sending their suggestions through email.

Dr. S. Vasantharathna
Chairperson - BoS

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Controller of Examinations External members

Internal members (By circulation)

Department file