

COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE
(Government Aided Autonomous Institution)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MINUTES OF THE MEETING

The Board of Studies (BoS) meeting of the department of **Electrical and Electronics Engineering** was held on 27.10.2020, Tuesday by 4.00 P.M through online mode in Gmeet (Meeting URL: <https://meet.google.com/iks-upas-dtd>) with the members nominated as follows.

NAME AND DESIGNATION OF THE MEMBERS
CHAIRPERSON-BOS
Dr.S.Vasantharathna, Professor and Head, Department of EEE, Coimbatore Institute of Technology, Coimbatore -641 014
UNIVERSITY NOMINEE
Dr.A. ArunyaRevathi Professor, Department of EEE, AlagappaChettiar college of Engineering and Technology, Karaikudi – 630 003. Tamilnadu, India Ph : +91 9443502182 E-mail: arunyarevathi_eee@yahoo.co.in
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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(On Leave)
5	Dr.S.Elango	17	Dr. M. PackiaSudha
6	Dr.S.Geetha	18	Ms. M. Radha
7	Dr. G. Manavaalan	19	Ms.S.RathnaPriya
8	Ms.D.Prema	20	Dr. K. Suresh
9	Ms.K.Vanithamani	21	Ms.M.L.Merlinsajini
10	Ms.P.Devaki	22	Mr.P.Vinodkumar
11	Dr.A.Kavithamani	23	Mr.B.Vasanthan
12	Ms. A. Priyadharshini (On Medical Leave)	24	Ms. K. Arthi
CO-OPTED MEMBERS			
1	Ms.E.Suganya	3	Ms.C.Kaushika
2	Ms.C.Christina	4	Mr.R.Chandrasekar

The Chairperson Dr. S. Vasantharathna welcomed the members of the Board of Studies for finalizing the following agendas:

- UG (Electrical and Electronics Engineering) curriculum for 5th to 8th semester
- Syllabi contents for 5th and 6th Semester subjects of study

- List of elective subjects
 - Syllabi for One Credit Courses
 - Ratification of Syllabus for OCC on Electrical Safety
 - Revision in articulation matrix of PO's and PEO's for R2019 curriculum.
 - Curriculum structure for B.E. Part Time Course for the AY- 2020-2021.
- The Chairperson briefed on the curriculum and syllabi of 1-4 semester in R 2019 regulations.
 - Dr.R.Rajalakshmi described the curriculum and syllabi for the UG course and comparison of credit distribution of various categories (PCC, PEC, FC, OEC and OCC) of curriculum between proposed CIT 2019 regulation and AICTE curriculum.
 - Board members expressed their views on maintaining the credit distribution without much variance, as per the AICTE structure.
 - The internal members clarified that the uniform structure had been proposed by office of the Controller of Examinations across the institution and explained that autonomy was flexible.
 - Discussions on PO's, PEO's and CO's are held and all the board members suggested to use the PO's, PEO's and CO's framing keywords as per Bloom's Taxonomy metrics.
 - The Chairperson explained about the evaluation procedures for one credit courses and consideration of departmental courses, college-level courses, industry-collaborative courses, online exams by professional bodies/industries and Hackathon can be made compulsory under one credit course for sixth semester. Students should have participated in 5 different hackathons from the 3rd to 6th semester and they should have crossed two to three levels at-least in any one of the hackathons as equivalent courses for one credit courses.
 - The Chairperson briefed on about Separate Committee formation and evaluation process for NPTEL Online courses for the exemptions of OCC and Elective courses for the students. The Committee member recommends Engineering and relevant Management streams of NPTEL courses and decides on the process of enrollment and assessment of NPTEL courses.
 - As per recommendations of committee members, NPTEL courses completed during 1st to 4th semester can be considered for exemptions of OCC courses.
 - As suggested by the Committee Member, exemptions from elective courses can be considered for NPTEL courses of 12-16 weeks completed during the 5th to 8th semester,.
 - 4 weeks of industrial training undertaken during the semester holidays from 1st to 7th semester can be considered for industrial internships (in-plant training).

- For fast track course enrollment, students who maintains 8 CGPA and above without standing arrears are permitted from 5th semester onward to take 8th semester's electives as fast track courses.

Semester-5:

- **Control Systems course:** Dr.K.Selvi suggested to include some application oriented contents.
- Subject handling faculty members Dr. V.Manikandan and Ms. Prema are agreed to include the application specific systems.
- **Power System Analysis:** Dr.A. Arunya Revathi suggested to include some more books as Text book, to change the Unit-1 title as Power system components and network modeling, to increase the time duration for unit-3 by reducing the time duration of unit-5 and to include concept of multilevel machine modeling. Dr.A. Arunya Revathi also suggested to include power system control and economics concepts in power system analysis course.
- Dr. S. Vasantharathna replied that power system control and economics concepts are included in the Generation of Electrical Energy syllabus.
- Dr.M.P.Selvan suggested to remove the UPFC and STATCOM devices and to include "Power System Analysis" by John Grainger and William Stevenson as Text book in **Power System Analysis** course. Dr.M.P.Selvan suggested that multilevel machine modeling concepts is not required for UG students.
- Dr. S. Vasantharathna expressed that an introduction to multilevel machine modeling concepts, is being taught though not explicitly stated.
- **Embedded System Design:** Dr.A. Arunya Revathi and Dr.K.Selvi are recommended to change the content to include 8051 microcontrollers as per gate Syllabus and to provide as Theory cum Practical (TCP) course.
- Dr. S. Vasantharathna clarified the board members that the syllabus was framed in R 2012 based on Industrial Experts recommendation. Also the department has setup a lab infrastructure in collaboration with ARM Company and hence the subject has to be retained as the core subject. AICTE also has signed a MoU with ARM for academic support and 8051 Microcontrollers and Pentium Microprocessors may be considered as an elective subject.
- **Control System Laboratory:** Dr.M.P.Selvan and Dr.A. Arunya Revathi recommended to change the experiment 4 and 5 title as Determination of Transfer function constants of armature controlled DC Motor and Determination of Transfer function constants of field controlled DC Motor respectively.

- **Embedded System Design Laboratory:** Dr.A. ArunyaRevathi and Dr.K.Selvi suggested to change all the title as specific to the experiment in **Embedded System Design Laboratory**,
- Subject handling faculty member Mrs.S.Rathnapriya and Mr.B.Vasathanclarified the board members that broad outline of the experiments are given in order to have flexibility in formulating the different questions to the individual students during laboratory classes as it is continuous assessment scheme.

Semester-6:

- **Power Electronics:** Dr.A. ArunyaRevathi are suggested to include the word qualitative treatment in bracket and Dr.M.P.Selvan and Dr.K.Selvi suggested to include applications in all the units or Applications of power electronics as a subtitle to the Unit-5 Applications content instead of giving it in Unit 5 alone.
- Subject handling faculty member Dr.E.ChandiraSekaranagreed to modify all the changes and applications contents as general applications of power electronics converters in Unit 5.
- **Protection of Power Systems:** Dr.K.Selvi recommended to include circuit breakers contents to unit-1 instead of unit-4, to reduce the numerical algorithms from Unit 3 and to remove Klydonograph from unit-4.
- Subject handling faculty member Dr. Sujaagreed to perform all the modifications as per board member's suggestions.
- **Power Systems Laboratory:** Dr.A. ArunyaRevathi recommended to include stability and transmission line parameter calculations as additional experiments, and to include Newton Raphsonmethod along with gauss seidal method in load flow analysis experiment as simulation.Dr.S.Kudiyarasan suggested to include experiments on harmonic calculations.
- **Power Electronics Laboratory:** Dr. M. Sathish recommended to includeintegration of energy devices for Power delivery like combination of capacitors etc. and charging control experiments.

Semester-7:

- **Generation of Electrical Energy:**Dr.M.P.Selvan suggested to include cogeneration contents in 5th Unit or to change the unit title asMicrogrid alone without any cogeneration concepts.
- **Smart Grid:**All the board members acknowledged the syllabus contents and accepted to offer Smart Grid as Core subject as per student's interest and future requirement.

One Credit courses:

- All the members acknowledged the one credit course “**Electrical Safety Standards and Practices**” offered to the present 3rd semester students and Dr.K.Selvi appreciated the contents of the course and Dr.S.Kudiyarasan recommended to include Industrial certification details in this course.
- All the members acknowledged the one credit course “**SCILAB programming**” syllabus contents.

Part-Time B.E Course:

- All the board members acknowledged curriculum structure for B.E. Part Time Course for the AY-2020-2021.

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. And further suggestions are welcomed from members through email.

Dr. S. Vasantharathna

Chairperson - BoS

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Internal members (By circulation)

Department file