

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

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**BOARD OF STUDIES - MINUTES OF THE MEETING**

**BoS/R2023/ MoM 1**

**21.01.2023**

The Board of Studies (BoS) meeting of the department of Electrical and Electronics Engineering was held on **21.01.2023**, Saturday by 2.00 P.M in Automation Lab to finalize the curriculum structure of the Regulation 2023 and the syllabi of semesters 1 & 2, with the members nominated as follows.

<b>S.No.</b>	<b>Name of the Members</b>
	<b>CHAIRPERSON - BoS</b>
<b>1.</b>	Dr.S.Vasantharathna, Professor and Head, Department of EEE, Coimbatore Institute of Technology, Coimbatore -641 014
	<b>UNIVERSITY NOMINEE</b>
<b>2.</b>	Dr. Sujatha Balaraman Professor Department of EEE Government College of Technology, Coimbatore – 641013 Phone: 9976443102 Email: sujathaeec@gct.ac.in
	<b>SUBJECT EXPERTS</b>
<b>3.</b>	Dr. M. Sabarimalai Manikandan Associate Professor Department of EEE Indian Institute of Technology, Palakkad Phone: 7894447889 Email: msm@iitpkd.ac.in
<b>4.</b>	Dr. P. Parthiban Associate Professor Department of EEE National Institute of Technology, Surathkal Phone: 9019153775 Email: parthiban@nitk.edu.in

<b>INDUSTRY EXPERT</b>	
5.	Mr. Uthrakumar Arumuganainar Project Manager Soliton Technologies, Coimbatore Phone: 7795353007 Email: uthrakumar@solitontech.com
<b>ALUMNUS</b>	
6.	Ms. Girija G Joint Director Central Power Research Institute, Bangalore Email: girija@cpri.in 9449037091

S.No	Internal Members	S.No	Internal Members
1.	Dr.S.Vasantharathna	16.	Dr.R.Rajalakshmi
2.	Dr.V.Manikandan	17.	Ms.M.Mynavathi
3.	Dr.E.ChandiraSekaran	18.	Dr.M.Packiasudha
4.	Dr.S.Suja	19.	Dr.M.Radha
5.	Dr.J.Devi Shree	20.	Dr.RathnaPriya
6.	Dr.S.Geetha	21.	Dr.K.Suresh
7.	Dr.G.Manavaalan	22.	Dr.M.L.Merlinsajini
8.	Ms.D.Prema	23.	Mr.P.Vinodkumar
9.	Ms.K.Vanithamani	24.	Mr.B.Vasanthan
10.	Ms.P.Devaki	25.	Ms.K.Arthi
11.	Dr.A.Kavithamani	26.	Ms.E.Suganya (On Leave)
12.	Dr.S.Elango	27.	Dr. R. Prabhakaran/Department of Mathematics
13.	Ms.A.Priyadarshini	28.	Dr.S.Sugapriya/Department of Chemistry
14.	Dr.S.Gunasekaran	29.	Dr. S. Agilan/Department of Physics
15.	Dr.S.Nanda Kumar	30.	Dr. A. Shantha Devi/Science and Humanities

## **MINUTES OF THE MEETING**

The Chairperson Dr. S. Vasantharathna welcomed the members of the Board of Studies meeting with the following agenda.

- To discuss and finalize the B.E. Subjects of Study and syllabus of the semesters 1 & 2 for the Regulation 2023.
- To discuss and finalize the new elective subject introduced for the Regulation 2019.
- To discuss and finalize the B.E / B. Tech Honors/Major/Minor for the students admitted from 2021 onwards.
- To ratify the One Credit Courses and Ph.D course work.

<b>ITEM 01</b>	The Chairperson Dr. S. Vasantharathna presented the subjects of study for the Regulation 2023
Resolution	Curriculum structure is designed with 5 theory subjects, 3 laboratory subjects, internship, mini-project, project work and mandatory courses.
<b>ITEM 02</b>	<b>TECHNICAL ENGLISH</b>
Discussion	External Board members have asked to clarify the need of English that has to be studied in two semesters.
Decision	The Co-opted member Dr. A. Shantha Devi, Department of English has clarified that the students would study the theory concepts in the first semester and in the second semester the students would be trained through hands-on sessions to improve their communication skill.
<b>ITEM 03</b>	<b>MATRICES AND CALCULUS / COMPLEX ANALYSIS AND TRANSFORMS</b>
Discussion	External and internal board members have suggested to strengthen the content of matrices and to add the content of partial derivatives and to ensure the coverage of gate syllabus. They have suggested to change the title too. In the subject complex analysis and transforms board members have suggested to combine Fourier Series and Transforms and to include Z Transforms.
Decision	Co-Opted member Dr. R. Prabhakaran, Department of Mathematics has been suggested to modify the content of the syllabus and to change the nomenclature accordingly.
<b>ITEM 04</b>	<b>CHEMISTRY FOR ENERGY STORAGE TECHNOLOGIES</b>
Discussion	Dr. Sabarimalai Manikandan and Mr. Uthrakumar have suggested for changing the title of the subject “Chemistry for Energy Storage Technologies” and have mentioned that the chemical properties of display devices may be added.
Decision	After the discussion among the internal and co-opted members, it has been proposed as “Electrochemical Technologies” and the board has approved the same.
<b>ITEM 05</b>	<b>BASIC CIVIL AND MECHANICAL ENGINEERING</b>
Discussion	Board members have suggested to align the syllabus of mechanical engineering towards the need of electrical students in understanding the thermal and basic mechanical concepts rather than having the concept of introduction to power system.
Decision	It has been accepted by all the internal members.
<b>ITEM 06</b>	<b>ELECTRON DEVICES AND CIRCUITS</b>
Discussion	Board members have suggested to remove the content of SMPS and UPS and to add the content of linear power supplies and also to ensure the flow in unit 3 as Rectifiers: half wave, full wave and bridge rectifiers- Performance factors: ripple factor, transformer utilization factor and rectification efficiency
Decision	Co-Opted member Dr. S. Agilan, Department of Physics has been asked to modify the syllabus content accordingly.

<b>ITEM 07</b>	<b>ECOLOGY AND ENVIRONMENTAL SCIENCE</b>
Discussion	Board members suggested to revise the title of unit 5 and to add the related proposals of the Tamil Nadu government.
Decision	Co-Opted member Dr. S.Sugapriya, Department of Chemistry has been asked to modify the syllabus content accordingly.
<b>ITEM 08</b>	<b>SUBJECTS TO BE COMBINED</b>
Discussion	Dr. Sabarimalai Manikandan has suggested to combine the syllabus of the following subjects to avoid repetition of conceptual understandings. <ul style="list-style-type: none"> <li>• Electric and magnetic circuits – sem 1</li> <li>• Electric circuit analysis – sem 3</li> <li>• Networks and systems – sem 4</li> <li>• Digital circuits – sem 1</li> <li>• Electron devices and circuits – sem 1</li> </ul>
Decision	Internal board members accepted to revise the curriculum accordingly
<b>ITEM 09</b>	<b>TRANSFORMERS</b>
Discussion	Board members have suggested, to shift the course on Transformers to the higher semesters instead of having in semester 2 and to include the basic subjects like basic communication engineering and basic concepts of computer programming/networking/communication tools.
Decision	Based on ITEM 08 outcome, the subjects would be added.
<b>ITEM 10</b>	<b>ANALOG AND DIGITAL CIRCUITS</b>
Discussion	Dr. Sabarimalai Manikandan has suggested to have the individual subject for analog and digital circuits and also suggested to combine analog and linear circuits
Decision	Internal board members accepted to revise the curriculum accordingly
<b>ITEM 11</b>	<b>EMBEDDED SYSTEM DESIGN</b>
Discussion	Mr. Uthrakumar has suggested to shift the course on Embedded System Design to the earlier semester in order to facilitate the students to do their mini project.
Decision	It would be considered during curriculum revision.
<b>ITEM 12</b>	<b>POWER ELECTRONICS</b>
Discussion	Dr. P. Parthiban and Dr. Sabarimalai Manikandan have suggested to shift the course on Power Electronics to the previous semester.
Decision	Internal members have accepted to swap among the subjects Power Electronics in VI semester and Power System Analysis in V semester.

<b>ITEM 13</b>	<b>GENERATION OF ELECTRICAL ENERGY</b>
Discussion	Dr. Sujatha Balaraman has asked to combine the subjects Generation of Electrical Energy and Transmission and Distribution
Decision	After the elaborate discussion it has been finalized to have the subjects individually as such and Dr. Sujatha Balaraman has recommended to change the title of the subject Generation of Electrical Energy.
<b>ITEM 14</b>	<b>DIGITAL PROTECTION OF POWER SYSTEM</b>
Discussion	Dr. Sujatha Balaraman and Ms. G. Girija have suggested to revise the contents of conventional protection in the subject Digital Protection of Power System.
Decision	It would be considered during curriculum revision.
<b>ITEM 15</b>	<b>ELECTIVE LABORATORIES</b>
Discussion	Dr. P. Parthiban and Dr. G. Girija have clarified about the content of the elective laboratories and Dr. Sujatha Balaraman has asked to have three contact hours for the laboratories.
Resolution	Syllabi of the elective laboratories include the relevant experiments from the elective stream that would be studied by the students and the credit should be only in-terms of integer for each laboratory courses.
<b>ITEM 16</b>	<b>FOG COMPUTING</b>
Discussion	Board members have suggested to change the title of the subject Fog Computing as Distributed Computing.
Decision	Accepted by all the internal members.
<b>ITEM 17</b>	<b>MANDATORY COURSES</b>
Discussion	All the board members have approved the department specific mandatory courses which would aid in developing the knowledge and skills of the students.
Decision	The mandatory courses may be modified or added further, based on the department requirements.
<b>ITEM 18</b>	<b>POs, PEOs and PSOs</b>
Decision	The POs, PEOs and PSOs would be revised as per the suggestions given by the board members about the overall curriculum structure.
<b>ITEM 19</b>	<b>VERTICALS/ONE CREDIT COURSES/Ph.D COURSE WORK</b>
Decision	The verticals proposed for B.E / B. Tech Honors/Major/Minor for the students admitted from 2021 onwards, new elective subject (Operating Systems) for R 2019, One Credit Courses and Ph.D course work (Smart Systems) are approved by the board members and suggested to add the subjects Signals and Systems and Digital Signal Processing in the verticals.

<b>ITEM 20</b>	<b>TAMIL NADU GOVERNMENT SCHEMES</b>
Discussion	The University Nominee Dr. Sujatha Balaraman gave the introduction about Tamil Nadu government initiatives such as Naan Mudhalvan and Nallaya Thiran (etc.,) which would be considered for the skill development of the students.
Decision	All the Board members have accepted.
<b>ITEM 21</b>	<b>GENERAL SUGGESTION</b>
Discussion	All the board members have suggested to include the subjects and syllabi content towards the futuristic technological development as per the various apex bodies like AICTE, UGC and Anna University etc., and the Central and State Government educational policies.
Decision	All the internal members have agreed the point.

Finally, Chairperson has concluded the meeting by summarizing the major points discussed in the forum.

*S. Vasantharathna*  
21/11/2023

Dr. S. Vasantharathna

**Chairperson - BoS**

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