

S.A. ENGINEERING COLLEGE, CHENNAI-600 077
(An Autonomous Institution Affiliated to Anna University)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
MINUTES OF BOARD OF STUDIES MEETING

DATE:26/02/2020

S.A.Engineering College, Chennai conducted the meeting of Board of Studies for UG (B.E -EEE) and PG (M.E – EST) in the Department of Electrical and Electronics Engineering as per the guidelines of UGC on 26/02/2020 at MBA Seminar hall.

The Following are the Members of Board of Studies:

S.NO	NAME & ADDRESS	DESIGNATION
1.	Dr. G. Rohini Department of Electrical and Electronics Engineering, S.A. Engineering College, Chennai-77.	Chairperson, Professor & Head,
2.	Dr. P. Sivakumar Department of Electrical and Electronics Engineering, RajaLakshmi Engineering College, Chennai .	University Nominee, Associate Professor,
3.	Dr. K. Selvajyothi, Indian Institute of Information Technology Design & Manufacturing (IIITDM), Kancheepuram, Chennai-127.	Subject Expert, Assistant Professor,
4.	Dr. N.P. Subramaniam, Department of Electrical and Electronics Engineering, Pondicherry Engineering college, Puducheery.	Subject Expert, Associate Professor,
5.	Mr. N. Jeyapaul Singh, Lucas TVS Pvt. Ltd, Chennai.	Representative from Industry, Deputy Manager
6.	Mr. S.Thirumalaikumarasamy, Hitachi, Chennai.	Meritorious Alumnus Software Specialist
7.	Dr. S. Kamalakkannan, (Power Electronics and Drives) EEE / SAEC	Professor
8.	Dr. R. Premalatha, (Power Electronics and Drives) EEE / SAEC	Professor
9.	Mrs. N. Magadevi, (Embedded System technologies) EEE / SAEC	Associate Professor
10.	Mrs. S. Bharathi M.E (Applied Electronics) EEE / SAEC	Associate Professor
11.	Mrs. A. Prabha, (Energy Engineering) EEE / SAEC	Associate Professor
12.	Mr. B. Karthikeyan, (Power System) EEE / SAEC	Associate Professor
13.	Mrs. J. Megala, (Communication System) EEE / SAEC	Associate Professor
14.	Mrs. K.S. Margaret, (Instrumentation Engineering) EEE / SAEC	Assistant Professor

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15.	Mrs. A. Vinidha Roc, (VLSI Design) EEE / SAEC	Assistant Professor
16.	Mrs. S. Sathya, (Power Electronics & Drives) EEE / SAEC	Assistant Professor
17.	Mrs. N. Raja Vinu, (Power Electronics & Drives) EEE / SAEC	Assistant Professor
18.	Mrs. L. Valliammal, (Electronics and Control) EEE / SAEC	Assistant Professor
19.	Mr. T. Sathish Kumar, (Power System Engineering) EEE / SAEC	Assistant Professor
20.	Mr. S.P. Alexprabu, (Power Electronics & Drives) EEE / SAEC	Assistant Professor
21.	Mr. N. Sakthi Saravanan, (Power Electronics & Drives) EEE / SAEC	Assistant Professor
22.	Mrs. L. Naga Lakshmi, (Power System Engineering) EEE / SAEC	Assistant Professor
23.	Mr. R. Kamalakannan, (Embedded System Technologies) EEE / SAEC	Assistant Professor
24.	Mrs. S. Archana, (VLSI) EEE / SAEC	Assistant Professor
25.	Ms. R. Priyanka, (Power Electronics & Drives) EEE / SAEC	Assistant Professor
26.	Ms. E. Lavanya, (Embedded System Technologies) EEE / SAEC	Assistant Professor

The Chairperson **Dr. G. Rohini**, Board of Studies in Department of Electrical and Electronics Engineering welcomed the Members of Studies.

- The Meeting proceeded to the matters in Agenda:

S.NO	POINTS DISCUSSED DESCRIPTION
1.	Credits for Subject <ul style="list-style-type: none"> • Total credit should exist between 159 to 163. • For 1 lecture hours, 1 credit can be awarded and for 2 Practical hours, 1 credit can be awarded. • For combined course (Theory and Lab), 4 credits can be allotted. • No credits can be given for Mandatory Course. • Credits for subjects should be modified to maintain the Overall credit limits.
2.	Electives <ul style="list-style-type: none"> • Online Elective, Open Elective and Professional Electives can be included in VIII semester. • The Open Electives may include NPTEL courses, other department related papers and other languages. • Open Elective option can be modified as Open elective/Program Elective.
3.	All Major/Technical papers which have been allotted till 6 th Semester should cover the GATE syllabus.

4.	Technical English subject can be included in VII/VIII semester which will be helpful for students for writing Project Thesis.
5.	Discussions and Suggestions are given regarding curriculum and syllabus and they are listed in Annexure.

CERTIFICATE

The UG (B.E -EEE) and PG (M.E-EST) Syllabus of the Department of Electrical and Electronics Engineering, S.A.Engineering College (Autonomous), Chennai for 2020-2021 admission onwards, has been ratified by the Board of Studies of Electrical and Electronics Engineering which met on 26/02/2020 at S.A.Engineering College, Chennai.

Members Present:

S.NO	NAME & ADDRESS	DESIGNATION	SIGNATURE
1.	Dr. G. Rohini Department of Electrical and Electronics Engineering, S.A. Engineering College, Chennai-77.	Chairperson, Professor & Head,	<i>G. Rohini</i>
2.	Dr. P. Sivakumar Department of Electrical and Electronics Engineering, RajaLakshmi Engineering College, Chennai .	University Nominee, Associate Professor,	<i>P. Sivakumar</i>
3.	Dr. K. Selvajothi, Indian Institute of Information Technology Design & Manufacturing (IIITDM), Kancheepuram, Chennai-127.	Subject Expert, Assistant Professor,	<i>Selvajothi</i>
4.	Dr. N.P. Subramaniam, Department of Electrical and Electronics Engineering, Pondicherry Engineering college, Puducheery.	Subject Expert, Associate Professor,	<i>N.P. Subramaniam</i>
5.	Mr. N. Jeyapaul Singh, Lucas TVS Pvt. Ltd, Chennai.	Representative from Industry, Deputy Manager	<i>N. Jeyapaul Singh</i>
6.	Mr. S.Thirumalaikumarasamy, Hitachi, Chennai.	Meritorious Alumnus Software Specialist	<i>S. Thirumalaikumarasamy</i>
7.	Dr. S. Kamalakkannan, (Power Electronics and Drives) EEE / SAEC	Professor	<i>S. Kamalakkannan</i>
8.	Dr. R. Premalatha, (Power Electronics and Drives) EEE / SAEC	Professor	<i>R. Premalatha</i>
9.	Mrs. N. Magadevi, (Embedded System technologies)	Associate Professor	<i>N. Magadevi</i>

10.	Mrs. S. Bharathi M.E (Applied Electronics) EEE / SAEC	Associate Professor	S. Bharathi
11.	Mrs. A. Prabha, (Energy Engineering) EEE / SAEC	Associate Professor	A. Prabha
12.	Mr. B. Karthikeyan, (Power System)	Associate Professor	B. Karthikeyan
13.	Mrs. J. Megala, (Communication System) EEE / SAEC	Associate Professor	J. Megala
14.	Mrs. K.S. Margaret, (Instrumentation Engineering) EEE / SAEC	Assistant Professor	K.S. Margaret
15.	Mrs. A. Vinidha Roc, (VLSI Design) EEE / SAEC	Assistant Professor	A. Vinidha Roc
16.	Mrs. S. Sathya, (Power Electronics & Drives) EEE / SAEC	Assistant Professor	S. Sathya
17.	Mrs. N. Raja Vinu, (Power Electronics & Drives) EEE / SAEC	Assistant Professor	N. Raja Vinu
18.	Mrs. L. Valliammal, (Electronics and Control) EEE / SAEC	Assistant Professor	L. Valliammal
19.	Mr. T. Sathish Kumar, (Power System Engineering) EEE / SAEC	Assistant Professor	T. Sathish Kumar
20.	Mr. S.P. Alexprabu, (Power Electronics & Drives) EEE / SAEC	Assistant Professor	S.P. Alexprabu
21.	Mr. N. Sakthi Saravanan, (Power Electronics & Drives) EEE / SAEC	Assistant Professor	N. Sakthi Saravanan
22.	Mrs. L. Naga Lakshmi, (Power System Engineering) EEE / SAEC	Assistant Professor	L. Naga Lakshmi
23.	Mr. R. Kamalakannan, (Embedded System Technologies) EEE / SAEC	Assistant Professor	R. Kamalakannan
24.	Mrs. S. Archana, (VLSI) EEE / SAEC	Assistant Professor	S. Archana
25.	Ms. R. Priyanka, (Power Electronics & Drives) EEE / SAEC	Assistant Professor	R. Priyanka
26.	Ms. E. Lavanya, (Embedded System Technologies) EEE / SAEC	Assistant Professor	E. Lavanya

BoS Annexure:

1. BoS Committee has gone through Curriculum for UG & PG(I & II Semester Syllabus).
2. The committee has suggested to introduce Basic Electrical and Electronics Course instead of Technical English in II Semester to equip the knowledge for Engineering Practices Lab.
3. Technical English in II Semester subject can be included in VII/VIII semester which will be helpful for students for Placement and writing Project Thesis.
4. They suggested to introduce Circuits & Networks in III Semester instead of Circuit Theory in II Semester.
5. They suggested to combine theory and lab for Problem Solving & C Programming and Python Programming subjects.
6. The committee suggested to consider Soft Skill & Development program as Mandatory Course instead of offering 2 Credits for it. They asked to confirm the board under which the above course prevails.
7. Asked to prepare Comparison Chart for Anna University Curriculum credits and our Autonomous Curriculum credits.
8. In Circuit Theory,
 - In UNIT – I, the committee asked to remove the introduction of AC & DC and magnetic circuits.
 - In UNIT-II, they asked to check with AICTE syllabus to simplify the content.
 - In UNIT-III, they asked to remove the topics two port networks and filters.
9. The Committee has gone through the syllabus of Basic Electrical Electronics and Measurement Engineering for CSE & IT and suggested the following.
 - In UNIT – III, the committee asked to replace the topics of Sodium Vapour Lamp and Mercury Vapour Lamp by Energy Saving Lamps (LED,Cold cathode Tubes & CFL). They asked to introduce Li-Ion Battery's Operation & Maintenance.
 - In UNIT – III, the Committee asked to mention the topics such as “ Overview of Renewable Energy Sources”. (Wind and Solar)
 - In UNIT – III, the Committee asked to mention the topics clearly for Circuit Breakers as “Circuit Breakers – MCB, RCB and ELCB”
 - In UNIT – IV, the Committee asked to mention the topics such as “Introduction to Electron Devices – PN Junction diode, Zener Diode, Transistor).
 - In UNIT – V, they asked to remove CRO and to include functional Block diagram of DSO
10. The Committee has gone through the syllabus of Basic Electrical and Electronics Engineering for MECH & CIVIL and suggested the following.
 - In UNIT – I, they asked to remove the topics of Basic Magnetic Quantities, Magnetic Circuits, Electromagnetic Induction and force, AC operation of Magnetic Circuits.
 - In UNIT – III, they asked to include the topics of transducers used in industrial applications along with LVDT such as RTD
 - In UNIT – IV, the Committee asked to mention the topics such as “Introduction to Electron Devices – PN Junction diode, Zener Diode, Transistor) and Asked to include Multiplexer and De-multiplexer topic in Digital part.
 - In UNIT – V, the Committee asked to remove the out dated topics like FAX and asked to include Introduction to 2G, 3G and 4G.

11. The Committee has gone through the syllabus of Basic Electrical Electronics and measurement engineering for ECE and suggested the following changes and asked to frame the syllabus as follows.
 - UNIT-I Transformers
UNIT-II AC and DC Machines
UNIT-III Special electrical machines
UNIT-IV Three phase circuits
UNIT-V Measurements and Instrumentation
 - In UNIT-I Transformer, they asked to introduce High Frequency Transformers and Instrument transformers (only construction and operation) and to remove the topic circuit modeling and parameter.
 - In UNIT-II AC and DC Machines, they asked to remove the topics starting and speed control.
 - In UNIT-III Special electrical machines, they asked to include only the construction and working of Stepper motor, PLDC and PMDC and Universal motor.
 - In UNIT-V Measurements and Instrumentation, they asked to include digital measurements.
12. In M.E Embedded systems, They have suggested to introduce, industrial application oriented latest processor and its applications (NXP, Cortex). They asked to modify the course title as “Embedded system Design” instead of “ARM based embedded system design”.
13. They have suggested to mention the text books and two reference books of latest Edition.
14. The committee asked to frame the Course objectives and Course Outcomes for each course
15. In all BEEE papers, they asked to include calibration of instruments in Measurement and Instrumentation unit.
16. The committee has suggested to include open electives such as Artificial Intelligence, Machine Learning and Fuzzy Logic.
17. The committee has suggested each topic in syllabus must be very specific.