

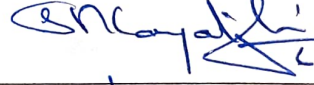
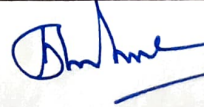
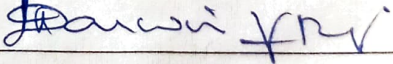
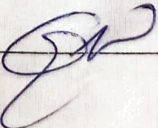
St. Xavier's Catholic College of Engineering

Chunkankadai, Nagercoil-629003, Tamilnadu, India.

Department of Electrical and Electronics Engineering

Attendance sheet of Board of Studies Meeting

The Board of Studies (BOS) meeting of the department of Electrical and Electronics Engineering was conducted on 06.01.2024 in EEE seminar Hall, SXCCE at 10.00 A.M. Following members were present.

Sl.No.	Faculty Name	Signature
1	Dr.V.Suresh Kumar, Professor, Department of EEE Thiagarajar College of Engineering Madurai.	 06/01/2024
2	Dr. G. Saravana Ilango Professor, Department of EEE, National Institute of Technology Trichy-620 015	Online
3	Dr.S.Solai Manohar, Professor/ Department of EEE, CMR Institute of Technology Bangalore -560037	Online
4	Er. S.Emil Jeba Singh, Assistant Executive Engineer, APDRP central office TANGEDCO, Parvathipuram Kanyakumari Electricity Distribution circle	 06/01/2024,
5	Er.P. Merlin Kumar Senior Executive Engineer (Electrical) Nuclear Power Corporation of India,Koodunkulam	 06/01/2024
6	Dr. S.V. Kayalvizhi HOD/EEE & Chairman of BOS	 6/1/24
7	Dr. M. Marsaline Beno,Professor/EEE Dean Research	 6/1/24
8	Dr. A.DarwinJoseRaju, Asso.Professor/EEE	
9	Dr. M. Germin Nisha, Asso.Professor/EEE	

10	Dr. M. John Bosco, Asst.Professor/EEE	<i>M John Bosco</i> 6/1/24
11	Mr. Almond D'souza, Asst.Professor/EEE	On Duty
12	Dr.S.S.Selva Pradeep, Asst.Professor/EEE	On Duty
13	Mrs. P. Suji Garland, Asst.Professor/EEE	<i>P Suji Garland</i> 6/1/24
14	Dr. Jain B. Marshel, Asst.Professor/EEE	<i>J B Marshel</i>
15	Mr.AbragamSiyonSing.M, Asst.Professor/EEE	<i>Abragam Siyon Sing M</i> 6/1/24
16	Dr. Jesus Bobin.V, Asst.Professor/EEE	<i>J Bobin V</i>
17	Dr. J Leon Bosco Raj, Asst.Professor/EEE	<i>J Leon Bosco Raj</i>
18	Mrs. S. Shiny, Asst.Professor/EEE	<i>S Shiny</i>
19	Dr.R.P.ANTO COMAR	<i>R P Anto Comar</i>

S V Kayalvizhi
Dr.S.V.KAYALVIZHI 6/1/2024

HOD & Chairman of BOS

Dr.S.V.KAYALVIZHI M.E,Ph.D
Assistant Professor & Head
Dept. Of Electrical and Electronics Engineering
St.Xavier's Catholic College of Engineering
Chunkankadai, Nagercoil- 629003

Mode : Hybrid

Date & Time : 06th January 2024 at 10.30 A.M – 1.30 P.M

Venue : EEE Seminar Hall

AGENDA

Prayer

03.01. Confirmation of Second BoS meeting minutes held on 27/05/2023 and Decision/Action Taken report.

03.02. Discussion on the Suggestions / Recommendations offered by the members in the II Academic Council meeting and the II Governing Body meeting.

03.03. Presentation of the proposed curriculum and getting recommendation for approval for the fourth semester course outcomes and fifth semester detailed draft syllabi of UG Programmes for regulation 2022.

03.04. Discussion on Employability Enhancement courses and Online courses, Teaching methodologies, Rubrics for assessment tools, Hard and soft skills.

03.05. Other matters if any.

Vote of Thanks

Members Present : Enclosed

MINUTES OF THE MEETING

The third Board of Studies meeting started with a silent prayer. Dr.M.Marsaline Beno, Dean of Research/Professor Faculty of Electrical Engineering welcomed the external and the internal members. The Chairman Dr.S.V.Kayalvizhi HoD/EEE presented the second Board of studies meeting minutes followed by discussion on 5th semester courses, Employability Enhancement courses and Online courses, Teaching methodologies, Rubrics for assessment tools, Hard and soft skills .

03.01. Confirmation of Second BoS meeting minutes held on 27-05-2023 and Decision/Action Taken report.

Sl.No	UG curriculum and syllabus - Suggestions	Action taken	Remarks
1	MA22301 Transforms And Complex Functions a. Introduction to Fourier series can be included in first unit. b. Vast syllabus.	Introduction to Fourier series is included in first unit and the syllabus contents is also reduced	Confirmed

2	EE22302 Electronic Devices and Circuits In II unit remove the contents SCR and two transistor model of SCR and add SiC and GaA.	The contents SCR and two transistor model of SCR are removed and SiC , GaA are added.	Confirmed
3	EE22303 Measurements & Instrumentation a. In Unit II contents static meter, and earth resistance tester can be added. b. Replace content megger by insulation tester.	a. In Unit II contents static meter, and earth resistance tester are added. b. megger is replaced by insulation tester.	Confirmed
4	EE22304 DC Machines & Transformers a. In Unit IV contents Hopkinson's test, Retardation test can be removed and topics introduction tan delta capacitance, introduction to type testing can be added. b. In Unit V content energy efficient technologies can be added.	a. In Unit IV contents Hopkinson's test, Retardation test were removed and topics introduction tan delta capacitance, introduction to type testing were added. b. In Unit V content energy efficient technologies are included.	Confirmed
5	EE22305 DC Machines & Transformers Laboratory a. Experiments Hopkinson's test on DC motor – generator set, Sumpner's test on single phase transformers, Open circuit and load characteristics of DC shunt generator- calculation of critical resistance and critical speed. Load characteristics of DC compound generator with differential and cumulative connections, Open circuit and load characteristics of DC shunt generator- calculation of critical resistance and critical speed can be removed. b. Experiment Dismantle and assemble dc motor and transformer can be added.	Modifications are incorporated.	Confirmed
6	EE22402 AC Machines The order of the topics can be changed in the following manner Unit I THREE PHASE INDUCTION MOTOR. Unit II STARTING AND SPEED	Change in the order of the topics in the syllabus is made.	Confirmed

	CONTROL OF THREE PHASE INDUCTION MOTOR Unit III SINGLE PHASE INDUCTION MOTORS AND SPECIAL MACHINES Unit IV SYNCHRONOUS MACHINES UnitV SPECIAL ELECTRICAL MACHINES.		
7	EE22403Digital Logic Circuits a.Textbook S. Salivahanan, S. Arivazhagan, “Digital Circuits and Design” 5th Edition, Oxford University Press, 2019 can be shifted to reference and M. Morris Mano, “Digital Logic and Computer Design”, Pearson India Education Services Pvt. Ltd., New Delhi, 2016. R. P. Jain, “Modern Digital Electronics”, 4th Edition, Tata McGraw Hill Education Pvt Ltd., 2010. Can be added as text book.	Modifications made in the syllabus.	Confirmed
8	EE22404Linear Integrated Circuits a.In Unit III remove contents Log and Antilog Amplifiers, Analog multiplier & Divider , clippers, clampers. b.In Unit IV AD633 and Analog multiplier ICs can be removed.	Changes are done.	Confirmed
9	EE22405Control Systems a.The abbreviation LTIV can be removed. b.In Unit II Construction and Interpretation can be removed.	The abbreviation LTIV and content Construction and Interpretation are removed.	Confirmed
10	EE22406AC machines laboratory a.The experiments order can be changed as per the suggestion given in the theory. b.Experiment Dismantle and assemble AC motor can be added.	Modifications are done.	Confirmed

PG Curriculum and Syllabus BOS suggestions and Action taken

Sl.No	PG curriculum and syllabus -Suggestions	Action taken	Remarks
1	a.The courses in Professional Elective IV can be Renewable Energy Technologies Wind Energy Conversion Technologies, Energy Management and Auditing HVDC and FACT b. The courses in Professional Elective V can be Energy Storage Technologies Optimization techniques course can be changed to Battery management system/PE interface for EV Python programming for machine learning Smart grid	The order of Electives IV and V is changed. Also instead of optimization techniques course Battery Management system is included.	Confirmed
2	PE22351Energy Storage Technologies In Unit III topic Li Ion battery can be added	In Unit III content Li Ion battery is included.	Confirmed

	PE22343Energy Management and Auditing		Confirmed
3	a. In unit IV content commercial losses can be added and DSM can be removed. 2.Unit V contents fittings in lighting techniques can be removed	Modifications are incorporated in the syllabus.	

• **03.02. Discussion on the Suggestions / Recommendations offered by the members in the second Academic Council meeting and the second Governing Body meeting.**

The second Academic Council meeting of St. Xavier's Catholic College of Engineering was conducted on 15.07.2023(Saturday) at 10:00 am at Einstein Hall. Committee accepted the modifications incorporated in the syllabus as per the recommendations of the Board of studies members.

03.03. Presentation of the proposed curriculum and getting recommendation for approval for the 5th semester detailed draft syllabi of UG Programmes for regulation 2022.

The chairman presented the newly framed 2022 draft curriculum and syllabus for 5th Semester of B.E Electrical and Electronics Engineering. Then the proposed curriculum and syllabus was reviewed by the Board of Studies members and they recommended the following suggestions.

B.E ELECTRICAL AND ELECTRONICS ENGINEERING

1. EE22502 Power Electronics

- a. In unit III topics Introduction to types of choppers-A, B, C, D and E can be removed.
- b. In Unit IV topics Introduction to space vector modulation-can be removed.
- c. In Unit V topics Applications of AC to AC converters can be included.

2. EE22503 Power System Analysis

- a. Unit V need to be completely reframed without content repetition in power system stability course.
- b. PLC programming can be removed or shifted to another vertical.

3. EE22504 POWER ELECTRONICS LABORATORY

- a. DC to DC converter experiments can be added.

4. EE22511 Power Plant Engineering

- a. In Unit IV Light water reactor (LWR) can be added

5. EE22611 Wind Energy Conversion System

- a. In Unit III fixed speed machine can be mentioned as Permanent magnet synchronous generator.

6. EE22711 Energy Storage System

- a. Whole topics in Unit V can be reframed with the same contents.
- b. The term simulation/Experiment in practical exercises can be avoided.

7. EE22712 Grid Integrating Techniques and Challenges

- a. In unit III topics The Triangular , The Identity Method can be removed
- b. In unit IV title can be included with Wind energy system
- c. Unit V can be completely removed and new topics can be added with Solar energy system.
- d. Theory cum Practical course can be changed to theory course

8. EE22521 Electric Vehicle Architecture

- a. Rewrite all Units with topics including Battery, controlling unit and controllers.

9. EE22522 Design of motor and Power converters for electric vehicles

- a. In unit III the title and contents can be considered with respect to electric vehicle
- b. TCP course can be changed to theory course

10. EE22621 Electric Vehicle design, Mechanics and Control

- a. In Unit I and II all contents can be changed with respect to challenges of EV and energy management strategies.

11. EE22622 Energy storage and management system

- a. In Unit I topics Mode of discharging, C-10 test can be added

12. EE22721 Testing of Electric Vehicles

- a. Few more practical experiments related to testing can be added.

13. EE22722 Grid Integration of Electric Vehicles

- a. In unit II and unit III titles and contents can be checked.

14. EE22542 Modern Electrical Machines

- a. In unit V specific name of machines can be mentioned.

15. EE22642 Electrical Drives

- a. Author Rashid book can be added as reference book.

16. EE22741 SMPS and UPS

- a. In unit III Luo converter can be removed.
- b. Author L.Umanand can be added as reference book.

17. EE22552 Digital Signal Processing System Design

- a. DIGITAL SIGNAL PROCESSING SYSTEM DESIGN course title can be changed as DIGITAL SIGNAL PROCESSING SYSTEM
- b. In unit V related to architecture the name of specific processor can be mentioned.

18. EE22751 Smart System Design

- a. The title of the course SMART SYSTEM DESIGN can be reframed.

Considering the above suggestions, the BOS recommended the curriculum and the syllabus of 5th semester courses of UG Programmes to the Academic Council for approval.

approval.

**03.04.Discussion on Employability Enhancement courses and Online courses,
Teaching methodologies, Rubrics for assessment tools, Hard and soft skills.**

All discussions on Employability Enhancement courses and Online courses, Teaching methodologies, Rubrics for assessment tools, Hard and soft skills were accepted by the committee members.

03.05.Other matters if any.

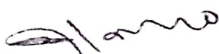
Nil

After offering the above suggestions and recommendations, the Board of Studies members approved the UG curriculum and syllabus for 5th semester .

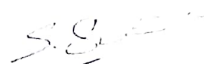
Finally the Head of the Department thanked all the members of the Board of Studies and the meeting ended at 01:30PM. While concluding the meeting, the Member secretary acknowledged the contribution of the expert members through their valuable suggestions during the discussions throughout the meeting and expressed thanks to everyone participated.



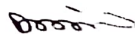
Dr.V.Suresh Kumar
(Anna University Nominee)



Dr. G. Saravana Ilango
(Academic Expert)



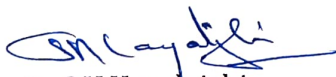
Dr.S.SolaiManohar
(Academic Expert)



Er. S.Emil Jeba Singh
(Industry Expert)



Er. P.Merlin Kumar
(Alumnus)



Dr.S.V.Kayalvizhi
(H.O.D. EEE)

Dr.S.V.KAYALVIZHI, M.E., Ph.D.
Assistant Professor & Head
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Dr.R.P.Anto Kumar
(Academic Dean)

Prof. Dr. R. P. ANTO KUMAR, M.E., Ph.D.,
Dean (Academics)
Member Secretary (Academic Council)
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Dr.J.Maheswaran
(Principal)

Dr. J. MAHESWARAN, M.E. Ph.D. FIE, MISTE,
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ST.XAVIER'S CATHOLIC COLLEGE OF ENGINEERING
CHUNKANKADAI
NAGERCOIL - 629 003



Department of Electrical and Electronics Engineering
Board of Studies Meeting
06/01/2024 at 10.00 AM

Germin Nisha is presenting



saravana



Germin Nisha



You



Dr S Solai

1	EE22041 Transformers And Complex Functions a. Introduction to Fourier series can be included in first unit. b. New syllabus.	Introduction to Fourier series is included in first unit and the syllabus contents is also reduced	Confirmed
2	EE22022 Electronic Devices and Circuits In II unit remove the contents SCR and two transistor model of SCR and add SIC and GAA	The contents SCR and two transistor model of SCR are removed and SIC, GAA are added	Confirmed
3	EE22023 Measurements & Instrumentation a. In Unit II contents static meter, and earth resistance tester can be added b. Replace content megger by insulation tester.	a. In Unit II contents static meter, and earth resistance tester are added b. megger is replaced by insulation tester	Confirmed

Germin Nisha is presenting



saravana



Germin Nisha



You



Dr S Solai

