



ST. XAVIER'S
CATHOLIC COLLEGE OF ENGINEERING
Chunkankadai, Kanyakumari District, Tamil Nadu

Accredited with 'A' Grade by NAAC
All UG Programs Accredited by NBA
Recognized under section 2(f) & 12(B) of UGC Act, 1956
All UG, MBA & MCA Programs Permanently Affiliated

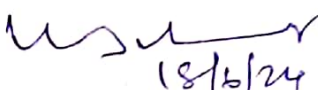


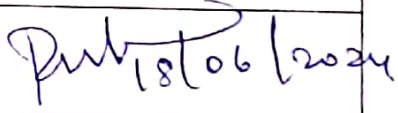
[An Autonomous Institution]

Department of Electrical and Electronics Engineering

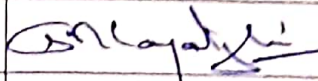
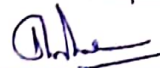
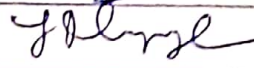
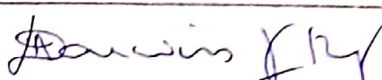

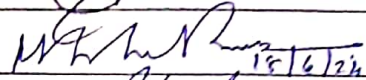
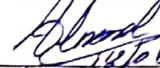
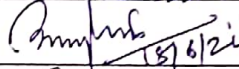
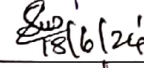

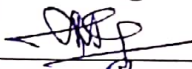

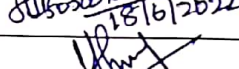

Attendance sheet of Board of Studies Meeting

The fourth Board of Studies (BOS) meeting of the Department of Electrical and Electronics Engineering was conducted on 18-06-2024 in Board room, SXCCE at 10.00 a.m. Following members were present.

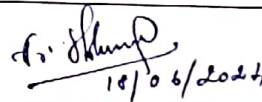

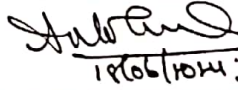
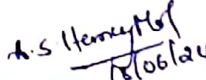
External Members

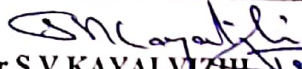
Sl.No.	Faculty Name	Signature
1	Dr.V.Suresh Kumar, Professor, Department of EEE Thiagarajar College of Engineering Madurai.	 18/6/24
2	Dr. G. Saravana Ilango Professor,,EEE Department National Institute of Technology Trichy-620 015	 18/06/24
3	Dr.S.Solai Manohar, Professor/EEE, CMR Institute of Technology Bangalore -560037	Online .
4	Er. S.Emil Jeba Singh, Assistant Executive Engineer, APDRP central office TANGEDCO, Parvathipuram Kanyakumari Electricity Distribution circle	 18/06/24
5	Er. P.Merlin Kumar Senior Executive Engineer (Electrical) Nuclear Power Corporation of India	 18/06/2024

Internal Members

Sl.No.	Faculty Name	Signature
1	Dr. S.V. Kayalvizhi HOD & Chairman of BOS	
2	Dr. M. Marsaline Beno, Dean Research	
3	Dr. J. Merry Geisa, Asso.Professor/EEE	
4	Dr. A.DarwinJoseRaju, Asso.Professor/EEE	
5	Dr. M. Germin Nisha, Asso.Professor/EEE	
6	Dr. M. John Bosco, Asst.Professor/EEE	
7	Mr. Almond D'souza, Asst.Professor/EEE	
8	Dr.S.S.Selva Pradeep, Asst.Professor/EEE	
9	Mrs. P. Suji Garland, Asst.Professor/EEE	
10	Dr. Jain B. Marshel, Asst.Professor/EEE	
11	Mr.AbragamSiyonSing.M, Asst.Professor/EEE	
12	Dr. Jesus Bobin.V, Asst.Professor/EEE	
13	Dr. J. Leon Bosco Raj, Asst.Professor/EEE	
14	Mrs. S. Shiny, Asst.Professor/EEE	

Special Invitees

Sl.No.	Faculty Name	Signature
1	Dr. S. Godwin Selva Justin	
2	Dr. J. MAHESWARAN	
3	Dr. R.A. Anid (Comptroller (Dean - Academic))	
4	A.S. Henry Mol (Trainer / Placement Cell)	


Dr.S.V.KAYALVIZHI 18/6/24
HOD & Chairman of BOS

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

Faculty of Electrical Engineering
Department of Electrical and Electronics Engineering
Fourth Board of Studies Meeting

Mode : Hybrid
Date & Time : 18th June 2024 at 10.00 A.M – 12.30 P.M
Venue : Board room

Agenda

Welcome Address

- 04.01: Confirmation of third BoS meeting minutes and decision/ action taken report.
- 04.02: Discussion on the suggestions / recommendations offered by the members in the third Academic Council meeting and the III Governing Body meeting.
- 04.03: Presentation of the proposed curriculum and getting recommendation for approval for the sixth semester course outcomes and sixth semester detailed draft syllabi of UG Programmes for regulation 2022.
- 04.04: Discussion on Internship/Industrial training and Rubrics for assessment .
- 04.05: Other matters if any.

Vote of Thanks

Members Present : Enclosed

MINUTES OF THE MEETING

The fourth Board of Studies meeting started with a prayer. Dr.S.V.Kayalvizhi, Chairman/Head of the Department of Electrical and Electronics Engineering welcomed the external and the internal members. Principal Dr.J.Maheswaran gave an introductory talk. The Chairman presented the third Board of studies meeting minutes and decision/action taken report followed by discussion on the suggestions / recommendations offered by the members third Governing Body meeting. Also presented the proposed curriculum and getting recommendation for approval for the sixth semester course outcomes and sixth semester detailed draft syllabi of UG Programmes for regulation 2022, followed by discussion on Internship/Industrial training and Rubrics for assessment. The details are given below

04.01: Confirmation of third BoS meeting minutes and decision/ action taken report.

Sl.No	UG curriculum and syllabus - Suggestions	Action taken	Remarks
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.	Introduction to types of choppers-A, B, C, D and E, Introduction to space vector modulation were removed and Applications of AC to AC converters are added	Confirmed
2.	EE22503 Power System Analysis a. Unit V need to be completely reframed without content repetition in power system stability course. b. Power system stability can be added as a new course instead of PLC programming course. PLC programming can be removed or shifted to another vertical	Modifications are incorporated in the syllabus	Confirmed
3.	EE22504 Power Electronics Laboratory DC to DC converter experiments can be added.	Experiments were added	Confirmed
4.	EE22511 Power Plant Engineering In Unit III topic Light water reactor(LWR) can be added.	Topic Light water reactor(LWR) is added	Confirmed
5.	EE22611 Wind Energy Conversion System In Unit III fixed speed machine can be mentioned as Permanent magnet synchronous generator.	Unit III fixed speed machine is mentioned as Permanent magnet synchronous generator.	Confirmed

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.	Modifications are incorporated in the syllabus	Confirmed
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.	a. In unit III topics The Triangular , The Identity Method are removed b. In unit IV and V modifications are incorporated. c. Theory cum Practical course is changed to theory course.	Confirmed
8.	EE22521 Electric Vehicle Architecture Rewrite all Units with topics including Battery, controlling unit and controllers.	Modifications are done.	Confirmed
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.	Modifications are incorporated in the syllabus	Confirmed
10.	EE22621 Electric Vehicle design, Mechanics and Control In Unit I and II all contents can be changed with respect to challenges of EV and energy management strategies.	Modifications are incorporated in the syllabus	Confirmed
11.	EE22622 Energy storage and management system a. In Unit I topics Mode of discharging, C-10 test can be added	In Unit I topics Mode of discharging, C-10 test is added	Confirmed
12.	EE22721 Testing of Electric Vehicles Few more practical experiments related to testing can be added.	More practical experiments related to testing are added.	Confirmed
13.	EE22722 Grid Integration of Electric Vehicles In unit II and unit III titles and contents can be checked.	Both titles were checked	Confirmed
14.	EE22542 Modern Electrical Machines In unit V specific name of machines can be mentioned.	In unit V specific name of AC series motors is mentioned.	Confirmed

15.	EE22642 Electrical Drives Author Rashid book can be added as reference book.	Author Rashid book is added as reference book.	Confirmed
16.	EE22741 SMPS and UPS a. In unit III Luo converter can be removed. b. Author L.Umanand can be added as reference book.	a. In unit III Luo converter is removed. b. Author L.Umanand is added as reference book.	Confirmed
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.	a. Digital Signal Processing System Design course title is changed as Digital Signal Processing System b. In unit V related to architecture the name of specific processor is mentioned.	Confirmed
18.	EE22751 Smart System Design a. The title of the course Smart System Design can be reframed.	The title of the course Smart System Design is reframed as Smart Systems.	Confirmed

04.02: Discussion on the suggestions / recommendations offered by the members in the III Academic Council meeting and the III Governing Body meeting.

The third Academic Council meeting of St. Xavier's Catholic College of Engineering was conducted on 20-01.2024 (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 and suggested two recommendations.

S.No	UG curriculum and syllabus - Recommendations	Suggestions in BOS
1	EE22511 – Power Plant Engineering This course should be handled by Mechanical Engineering faculty since almost all topics are related with Mechanical domain	Accepted
2	EE22712 – Grid Integrating Techniques and Challenges This course should be converted as TCP course incorporating experiments of Power Drives or including the Power Drives experiments in the course Power Electronics Lab and change the title as Power Electronics and Drives Lab.	EE22504-Power Electronics Laboratory course can be changed as Power Electronics and Drives Laboratory by including Power Drives experiments.

04.03: Presentation of the proposed curriculum and getting recommendation for approval for the sixth semester course outcomes and sixth semester detailed draft syllabi of UG Programmes for regulation 2022.

The chairman presented the newly framed 2022 draft curriculum and syllabus for 6th 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.

Sl.No	Course code and name	Suggestions in BOS
1	EE22601 Power Systems – Operation, Control and Protection	This course can be splitted into two courses. The first course may be Protection and switch Gear and it can be kept as one of the core course of sixth semester. The second course may be Power Systems Operation and Control and it can be grouped under the Professional Elective vertical Power engineering.
2	EE22602 Microprocessor and Embedded Systems	EE22602 Microprocessor and Embedded Systems course can be changed as Microcontroller and Embedded systems and contents related to Microcontroller can be added instead of Microprocessor.
3	EE22603 Microprocessor and Embedded Systems Laboratory	EE22603 Microprocessor and Embedded Systems Laboratory course can be changed as Microcontroller and Embedded systems Laboratory and experiments related to Microcontroller can be added instead of Microprocessor experiments.
4	EE22681 Electric Power Generation	a. In unit II types of reactors can be added. b. In unit V for Bio energy and Fuel cells: the topics can be reframed as Principle of working and types.
5	EE22682 Electric Vehicle	EE22682 Electric Vehicle course can be changed as a theory cum practical course. Necessary modifications in syllabus need to be incorporated


04.04: Discussion on Internship/Industrial training and Rubrics for assessment .


Regarding Internship/Industrial training and rubrics for assessment, it is recommended by the expert members to simplify the evaluation rubrics.


04.05.Other matters if any.

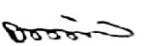
Nil


After offering the above suggestions and recommendations, the Board of Studies members approved the UG curriculum and syllabus for sixth semester and open elective I courses. Finally the Head of the Department thanked all the members of the Board of Studies and the meeting ended at 12:30p.m. While concluding the meeting, Dr.R.P.Anto Kumar the Member secretary acknowledged the contribution of the expert members through their valuable suggestions during the discussions throughout the meeting. Dr.M.Germin Nisha Asso. Professor/EEE Department expressed thanks to everyone participated.



Dr.V.Suresh Kumar
(Anna University Nominee)

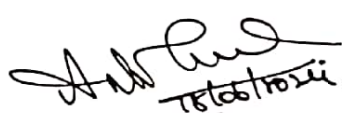

Dr. G. Saravana Ilango
(Academic Expert)



Dr.S.SolaiManohar
(Academic Expert)


Er. S.Emil Jeba Singh
(Industry Expert)


Er.P.Merlin Kumar
(Alumnus)


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


Dr.R.P.Anto Kumar
(Academic Dean)


Dr.J.Maheswaran
(Principal)

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

Prof. Dr. R. P. ANTO KUMAR, M.E., Ph.D.,
Dean (Academics)
Member Secretary (Academic Council)
St. Xavier's Catholic College of Engineering
Chunkankadal, Nagercoil - 629 003.

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



