Department of Electronics and Communication Engineering
Board of Studies Meeting # 05

Date:15.11.2024　　　　　　　　　　Venue: Einstein Seminar Hall
Time: 10.30 am ― 12.30 pm

Members Present

Sl.No.	Name	Designation	Signature
1.	fr. S. Godwin Sown Justins	CORRESPONDENT	fr. [signature] 15/11/2024
2.	Dr. J. Maheswaran	PRINCIPAL	[signature] 15-11-24
3.	Dr. J. Sheeba Rani	Professor, Avionics IIST, Trivandrum	Sheeba Ra.
4.	Dr. B Sathyabama	Professor , ECE, THIAGARAJAR COLLEGE OF ENG, MADURAI	B. Sathyabama.
5.	A. Sahaya Shiny	Ass. Tech Lead CAPESTART, Nal.	Shiny.
6.	Dr. R. Solomon Roach		ONLINE.
7.	Dr. E. S. Gopi	Prof / ECE, NIT, Trichy	(online)
8.	Dr. R. P. Anto Kumar	Dean (Academics)	[signature]

No.	Name	Designation	Signature
9.	A. Anitha	AP / ECE	
10.	K Baby Lisa	AP / ECE	
11.	R. P. Sherins	AP / AI&DS	
12.	R. Subitha	AP / Placement Cell	
13.	A. C. Jenisla	AP / ECE	
14.	Y. R. Annie Besant	AP / ECE	
15.	C. RENIT	AP / ECE	
16.	T. Ajitha	AP / ECE	
17.	M. Starwin	AP / ECE	
18.	V. Femila Sanio	AP / ECE	
19.	Dr. S. Caroline	HOD / ECE	
20.	Dr. T. Lalki	Prof / ECE	
21.	Dr. C. Sheeja Herobus Rani	Associate Professor / ECE	
22.	Dr. S. ABSA	Asst Prof / ECE	
23.	Dr. A. MILTON	Prof - ECE	

St. Xavier's Catholic College of Engineering, Chunkankadai, Nagercoil – 629003

Department of Electronics and Communication Engineering

Board of Studies Meeting Minutes # 05

Date : 15/11/2024

Time : 11.00 am – 12.30 pm

Venue : Hybrid Mode(Einstein Seminar Hall)

The fifth Board of Studies (BoS) meeting for the Department of ECE was held on November 15, 2024, at 11:00 a.m. in the Einstein Seminar Hall. The meeting commenced with a prayer led byMs. A. Anitha, AP/ECE. Dr. S. Absa, AP/ ECE, warmly welcomed the attendees, followed by an introductory address from the Principal, Dr. J. Maheswaran. Head of the Department, Dr. S. Caroline outlined the curriculum and syllabi for the seventh semester of the undergraduate program. Our correspondent, Rev. Fr. S. Godwin Selva Justus, offered his suggestions, and the meeting concluded with vote of thanks delivered by Dr. Y. R. Annie Bessant, AP/ ECE.

University nominee for BoS

1. Dr.B.Sathyabama, Professor, Department of Electronics and Communication, Thiagarajar College of Engineering, Madurai.

Expert Members in the Subject from outside the college

1. Dr.E.S.Gopi, Professor, Department of ECE, NIT, Trichy.

2. Dr.J.Sheeba Rani, Associate Professor, Department of Avionics, Indian Institute of Space Science and Technology (IIST), Trivandrum.

Representative from Industry

1. Dr.R.Solomon Roach, Manager , Design Engineering, Tessolve Semiconductor Pvt. Ltd., Bangalore.

Postgraduate Meritorius Alumnus

1. Ms.A.Sahaya Shiny, Associate Tech Lead, CapeStart Software Pvt Ltd.

AGENDA

05.01. Confirmation of the Fourth BoS meeting minutes held on 08/06/2024 and Decision/Action Taken report.

05.02. Discussion on the Suggestions / Recommendations offered by the members in the IV Academic Council meeting.

05.03. Getting recommendation for approval of Curriculum and Syllabi of Semester VII Core courses, Open Elective II and III courses for Regulation 2022 of UG Programme

05.04. Getting recommendation for approval of Additional course

05.05. Getting ratification for NPTEL courses

05.06. Other matters if any.

DISCUSSION

05.01. Confirmation of the Fourth BoS meeting minutes held on 08/06/2024 and Decision/Action Taken report.

Sl. No.	Suggestions / Recommendations related to Curriculum and Draft Syllabi by the members during IV BoS Meeting	Action taken	Suggestions / Recommendations Remarks by the members during V BoS Meeting
01	EC22601 Digital Communication - Lab experiments are to be rearranged unit-wise and reduce the number of experiments.	The experiments are rearranged and modified as per the suggestions of members	Confirmed and approved
02	EC22602 Embedded Systems and IoT Design - Unit 2 does not contain operating system concept	Included in the syllabus	Confirmed and approved
03	Coding Skills and Quantitative Aptitude - Phase I -Same title has to be followed in the seventh semester with Phase II	Modified in the curriculum	Confirmed and approved
04	EC22747 AI and IoT based Intelligent Automation in Robotics - Course contents should be rearranged as AI topic in the first unit followed with IoT	Modified in the syllabus with AI as first unit.	Confirmed and approved
05	EC22682 Medical Instrumentation - Syllabus may be reframed with basics. Unit 4 title should be reframed to 'Measurement of biological parameters"	Corrections are made	Confirmed and approved
06	EC22717 VLSI Signal Processing - Change unit 2 as Floating-Point Operations. Change unit 4 title as 'VLSI architecture for filter design' or 'Pipeline-based IIR' or 'Parallel architecture-based FIR/IIR' Change Unit 5 as Algorithmic Transformations and reframe the syllabus	Corrections are made in the syllabus	Confirmed and approved
07	Embedded System and IoT - can be included as open elective	Included as an Open Elective course	Confirmed and approved

05.02. Discussion on the Suggestions / Recommendations offered by the members in the IV Academic Council meeting

Sl. No.	Suggestions / Recommendations related to departments by the members during IV Academic Council Meeting	Decisions / Actions taken	Suggestions / Recommendations / Remarks by the members during V BoS Meeting
01	The title length of the course" AI and IoT based Intelligent Automation in Robotics" can be reduced.	The title of the course was changed to "AI and IoT in Robotics"	Approved
02	A new course "Air Balun Concepts" may be added in electives, since it is one of the emerging technologies.	Syllabus was framed. It was discussed in the V BoS meeting	Approved

05.03. Getting recommendation for approval of Curriculum and Syllabi of Semester VII Core courses, Open Elective II and III courses for Regulation 2022 of UG Programme

Sl. No.	Suggestions / Recommendations / Remarks by the members during V BoS Meeting	Action Taken
01	**EC22701 - RF Communication** Enhance the content on Antenna topics and introduce an additional unit focused specifically on Antennas.	Reframed the syllabus in which Unit 2 and Unit 3 focusses on Antennas
02	**EC22701 - RF Communication** The title should be changed.	Based on the inclusion of Antenna concepts, title of the course is changed to **"Antenna and RF Communication"**
03	**EC22781 - Biometric Technology** Since recognition methods are commonly implemented using deep learning, consider assigning deep learning techniques as practical assignments or include it in the syllabus.	It will be instructed to Course instructors to give assignment topics based on Deep learning techniques for each recognition
04	Incorporate the concept of Morphing in the syllabus	Incorporated in the syllabus
05	This course can be offered as an elective for students of ECE department.	Introduced a course "EC22727 - Biometric Systems" in the curriculum under Vertical 2 – Image and Signal Processing
06	Introduce image processing concepts as a prerequisite by covering fundamental image processing topics in the first unit.	Included in the syllabus as it is a prerequisite
07	**EC22785 - Machine Learning** In the third unit, exclude Dimensionality	Corrections are made

		Reduction and PCA, focus exclusively on Clustering	
	08	K-Nearest Neighbors (KNN) has to be included under Supervised Learning.	Corrections are made

05.04. Getting recommendation for approval of Additional course

Suggestions / Recommendations / Remarks by the members during V BoS Meeting	Action Taken
EC22757 - Air Balun Application in Communication Technology - Revise the content of Unit 1 as the contents will overlap with the core course Antenna and RF Communication. Instead of 5G include 6G	Modified in the syllabus
It was suggested by the BoS members to introduce an elective course Biometric Systems	As per the suggestions "EC22727 – Biometric Systems" course is introduced as an elective course

05.05. Getting ratification for NPTEL courses

Sl. No.	Name of the Student	NPTEL Course List	Course Exemption
1	ANASIKHA	Fundamentals of Artificial Intelligence	AD22681, Introduction to AI and ML (OE I – AI&DS)
2	ANNE VINCY		
3	ASWINI V L		
4	BIBILIN PRATHEESHA M		
5	B BREENA CHARLES		
6	S V DARSHANA SREE		
7	EFHIA STEPHANI		
8	R S ESTHER PRINCY		
9	HARSHINI		
10	AKSHAYA J U		
11	ABHISHEK A	Ethical Hacking	CS22782, Cyber Crime and Laws (OE II) - CSE
12	ABISHA P	Cloud Computing	IT22782, Fundamentals of Cloud Computing (OE II) - IT
13	ASHMI S		
14	EJUSHA J		
15	ANTON JEFFRIN F		
16	MERLIN SUJI Y		
17	AROCKIA PRIVINSHA		
18	AASIF MOHAMED A		
19	AMUTHAN A		
20	ANASIKHA A		
21	S ANUSREE		
22	AROCKIA RITHISH		
23	ARSITHA FATHIMA S		
24	B BREENA CHARLES		
25	EUCHARIST ANNIE S		
26	DONA SHIYALI T		
27	EFHIASTEPHANI		
28	MONISHA M		
29	VAISHNAVI S B		
30	ATCHAYA A D R	Sustainable Power Generation Systems	EE22681, Electric Power Generation (OE I) - EEE
31	FERJITH JOWEL F J	Advance Power Electronics and Control	

32	ANUSHYA		
33	ANUNITHA C	Programming in Java	Not opting Credit Transfer
34	INDIRA V		
35	EBIRA JERLIN E M		
36	FATHIMA RENOSHA M R	Cyber Security and Privacy	Not opting Credit Transfer
37	ANTO R K RAJ	Optical Wireless Communications for Beyond 5G Networks and IoT	Not opting Credit Transfer
38	JEBIN T	Entrepreneurship Essentials	Not opting Credit Transfer
39	SAJIN SAROSH S	An Introduction to Climate Dynamics, Variability & Monitoring	CE22681, Climate Change and its Impact(OE I) - CE
40	JEBIN T	Forests and their Management	
41	AKSHAYA J U		
42	JERIFF JOSE	Digital Image Processing	EC22624, Image and Video Processing
43	ANASIKHA	Water Quality Management Practices	CE22782, Drinking Water Supply and Treatment (OE II) - CE
44	JEBIN T		
45	JEBERSON R	Introduction to Internet of Things	IT22682, Internet of Things (OE I) - IT
46	REJO S T		
47	AASIF MOHAMED		
48	B BRELNA CHARLES		
49	DONA SHIYALIT		
50	ETHA STEPHANI		
51	MONISHA M		

Suggestions:

- Since Programming in Java and Entrepreneurship Essentials NPTEL courses are part of our curriculum, it was not recommended for Credit transfer

05.06. Other matters

- It was suggested that each department can focus on developing one MOOC course as an alternative to NPTEL, which can also be considered for credit transfer.
- It was suggested to frame Open Elective courses that attracts other department students for Regulation R2026 .

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Principal

B Sathyabama

Dr.B.Sathyabama
(University Nominee)

Dr.E.S.Gopi
(Expert Member)

Dr.J.Sheeba Rani
(Expert Member)

R Solomon Roach

Dr.R.Solomon Roach
(Representative from Industry)

Ms.A.Sahaya Shiny
(Meritorius Alumnus)