

**Department of Electronics and Communication Engineering**  
**Francis Xavier Engineering College, Vannarpettai, Tirunelveli - 627 003**  
(An Autonomous Institution - Affiliated to Anna University, Chennai)  
[www.francisxavier.ac.in](http://www.francisxavier.ac.in)

**7<sup>th</sup> Board of Studies Meeting in the Department of Electronics & Communication Engineering**

Mode: Through Offline and Online mode (Meeting Link: <https://meet.google.com/duw-nzvh-oet>)

Venue: Presentation hall

Date & Time: 18<sup>th</sup> August, 2022 at 01.30 p.m

**AGENDA**

BoS / ECE 7.1: Welcome address and Opening Remarks by Chairman, Board of studies in the Department of ECE

BoS / ECE 7.2: Confirmation of the Minutes of the 6<sup>th</sup> meeting of Board of studies in the department of Electronics & Communication Engineering held on 12<sup>th</sup> January, 2022

BoS / ECE 7.3: Business brought forward by the Chairman, Board of Studies, which is

7.3.1 Syllabi of Semesters I, II, III and IV for UG - B.E Electronics & Communications Engineering - for Regulations 2021

7.3.2 Curriculum & Syllabi of PG-M.E Communications Systems & M.E VLSI Design for Regulations 2019 with 2022 amendment

7.3.3 NPTEL online Courses

7.3.4 Minor courses and their syllabus

BoS / ECE 7.4: Other suggestions given by the BOS Members

Department of Electronics & Communication Engineering  
**MINUTES OF THE MEETING**

The 7<sup>th</sup> Meeting of the Board of studies of the Electronics & Communication Engineering was held on 18<sup>th</sup> August, 2022 at 01.30 p.m through both offline & online.

The following members were present:

S. No	Members as per UGC Norms	Members Nominated
1	Head of the Department concerned (Chairman)	Mrs.J.Friska, Head & Asso. Prof, ECE department
2	One Expert nominated by the Vice Chancellor from a panel of six recommended by the college Principal	Dr. S. Baulkani, Professor, Department of Electronics and Communication Engineering, Government College of Engineering, Tirunelveli
3	Two experts in the subject from outside the college nominated by the Academic Council	Dr.S.Anand Associate Professor Department of Communication Engineering, School Of Electronics Engineering (Sense)VIT-Vellore
		Dr.P.Sivakumar Professor, Department of Electronics and Communication Engineering, Kalasalingam University, Krishnankoil-626126. Virudhunagar, Tamil Nadu, India.
4	One representative from industry/corporate sector/allied area relating to placement	Er. Francy Williams Senior Engineer, All India Radio , Palayamkottai, Tirunelveli
5	One Post Graduate meritorious aluminous nominated by the Principal	Er. S.J. Jinolin Jacob HR manager, US Operations Insigma Technologies Pvt Ltd Trivandrum

**Internal Members Present:**

S. No	Name of the Member	Designation
1	Dr.N.MuthuKumaran	Asso. Prof/ECE
2	Mr.C.Amarsingh Feroz	Asso. Prof./ECE
3	Dr.R.Kabilan	Asso. Prof/ECE
4	Dr.K.Lakshmi Narayanan	Asso. Prof/ECE
5	Dr.P.Kannan	Asst. Prof/ECE

6	Dr.S.Allwin Devaraj	Asst. Prof/ECE
7	Dr.M.Suresh Chinna Thampy	Asst. Prof/ECE
8	Dr.R.PremAnanth	Asst. Prof/ECE
9	Dr.Andrew Roobert	Asst. Prof/ECE
10	Dr.J.S.Sumii	Asst. Prof/ECE
11	Mrs.M.Chitra Evangelin Christina	Asst. Prof/ECE
12	Mrs.E.Francy Irudaya Rani	Asst. Prof/ECE
13	Mr.B.Pradheep T Rajan	Asst. Prof/ECE
14	Mrs.M.Radha	Asst. Prof/ECE
15	Mrs.T.Ramya	Asst. Prof/ECE
16	Mrs.S.Balammal@Geetha	Asst. Prof/ECE
17	Mrs.Bhuvana	Asst. Prof/ECE
18	Dr.Suja Pon Mini	Asso. Prof./Chem
19	Mr.Robinson	Asst. Prof/Chem
20	Mr.Santiago Stephen	Asst Prof/Maths

**Ex-Officio members present:**

S. No	EX OFFICIO MEMBERS	
1	Dr.V.Velmurugan	Principal, Francis Xavier Engineering College, TVL
2	Dr.L.R.Priya, Asso.Prof, ECE Dept	Professor Academics, Francis Xavier Engineering College, Tirunelveli
3	Dr.G.Rajakumar, Prof, ECE Dept.	Controller of Examinations, Francis Xavier Engineering College, Tirunelveli
4	Dr.M.Caroline Viola Stella Mary	ERP Head, Francis Xavier Engineering College, Tirunelveli

**Members Absent:**

Nil



Board of Studies Meeting started with a prayer by Mr.C.Amarsingh Feroz, Asso.Prof/ECE

### **BOS / ECE 7.1: WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES IN THE DEPARTMENT OF ECE**

The BoS member Secretary Mrs.E.Francy Irudaya Rani, AP/ECE welcomed and introduced the Members and Special Invitees of Board of Studies and Management dignitaries by depicting their respective academic and professional profile.

The Chairman, BOS of Electronics & Communication Engineering once again welcomed the members of 7<sup>th</sup> Board of Studies and thanked each of them for sparing their valuable time to attend the meeting.

### **BOS / ECE 7.2: CONFIRMATION OF THE MINUTES OF THE 6<sup>TH</sup> MEETING OF BOARD OF STUDIES IN THE DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING HELD ON 12<sup>th</sup> January, 2022 AND ACTION TAKEN REPORT OF 6<sup>TH</sup> MEETING OF BOARD OF STUDIES**

The minutes of the Sixth Board of Studies meeting held on 12<sup>th</sup> January, 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the 6<sup>th</sup> Academic Council Meeting.

### **BOS / ECE 7.3: BUSINESS BROUGHT FORWARD BY THE CHAIRMAN, BOARD OF STUDIES:**

#### **7.3.1 SYLLABI OF SEMESTERS I, II, III, IV FOR UG - B.E ELECTRONICS & COMMUNICATIONS ENGINEERING - FOR REGULATIONS 2021**

The chairman presented the newly framed 2021 regulation syllabi for Semester from I to IV.

- Instead of **24** credits in **semester I**, we can have less number of credits in order to make students comfortable.
- For the benefits of the students, the **humanity based mandatory course** can be replaced with a **set of electives** which are dealing with **humanity courses** (eg. TQM, Ethics, POM).
- A clean check over the **mapping** between **CO & PSO** on the core engineering paper can be performed.
- Like the regular practical, the **Mini project** can be termed as a mandatory course for every academic year
- In the **Principles of Communication Networks** course we can add more **Analog/Digital Communication** related topics otherwise change the course title with respect to syllabus.

➤ **RESOLVED TO APPROVE the above-mentioned suggestions for Curriculum and syllabi of Semester 1,2, 3 & 4 - B.E Electronics & Communication engineering**

#### **BoS / ECE 7.3.2: CURRICULUM & SYLLABI OF PG-M.E COMMUNICATIONS SYSTEMS & M.E VLSI DESIGN FOR REGULATIONS 2019 with 2022 amendment**

- Like UG courses, the **professional and open elective** subject in PG course can be **replaced** with **NPTEL** course
- In PG CS and VLSI regulation 2019 with 2022 amendment, a new courses like Machine learning and ASIC Design along with Term Paper writing can be included to replace the credits of internship.

➤ **RESOLVED TO APPROVE the above-mentioned suggestions for Curriculum and syllabi of Semester 3 & 4 - M.E Communications Systems & M.E VLSI Design**

### BoS / ECE 7.3.3: NPTEL ONLINE COURSES

- Since AICTE has suggested 40% of courses in syllabus may be considered as an online course, so more number of professional and open elective courses can be replaced from certified online courses.
- List of courses were approved by the members for 2021 regulation.

#### ➤ **RESOLVED TO APPROVE list of online courses for regulation 2021**

*Annexure I: List of online courses for regulation 2021 – semester 5 with grading of NPTEL scores.*

### BoS / ECE 7.3.4: MINOR COURSES AND THEIR SYLLABUS

- There should not be any **syllabus coherence** between the **minor and regular courses** in regulation.
- The **quality of the honor** course syllabus must be **higher** than that of any other courses and it must satisfy the market demand.
- It is suggested to have the **project** for the **minor course** opted students in the final semester itself instead of seventh semester.

#### ➤ **RESOLVED TO APPROVE list of courses in minor specialization of Internet of Things**

*Annexure II: List of courses in specialization/ minor Degree in Internet of Things*

### BoS / ECE 7.4: OTHER SUGGESTIONS GIVEN BY THE BOS MEMBERS

- ✓ It's good to analyze the competency of the student at admission entry level itself and they shall be stream line to make them expertise in their lagging.
- ✓ The improvement in their skill can be brought out through some mandatory inter departmental club actives.
- ✓ Technical activities can be given on the basic of industrial demandable courses like Machine learning, IoT, Data science etc.

**Based on the suggestions given by the members, BOS resolved to recommend the following to the Academic Council for further approval.**

- **RESOLVED TO APPROVE** the Curriculum for 4 semesters and syllabi of Semester 1,2,3 & 4 - B.E Electronics & Communication engineering
- **RESOLVED TO APPROVE** the Curriculum and syllabi of Semester 3 & 4 - M.E Communications Systems & M.E VLSI Design
- **RESOLVED TO APPROVE** online courses for regulation 2021
- **RESOLVED TO APPROVE** list of courses in minor specialization of Internet of Things

The Chairman thanked all the members for their suggestions and substantial inputs provided in the meeting. Finally, the meeting ended with a vote of thanks by Mrs.M.Chitra Evangelin Christina, AP/ECE.

  
18/8/22

MEMBER SECRETARY

  
18/8/22







CHAIRMAN

BOARD OF STUDIES BOARD OF STUDIES









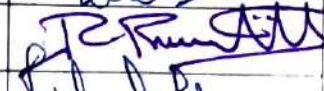
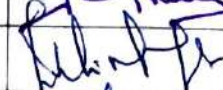
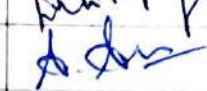
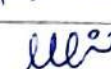


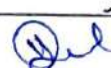
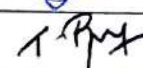


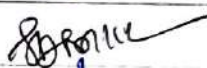


**Attendance Sheet Table of Members**

**External Members present:**





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3	Two experts in the subject from outside the college nominated by the Academic Council	<b>Dr.S.Anand</b> Associate Professor Department of Communication Engineering, School of Electronics Engineering (Sense), VIT-Vellore	
		<b>Dr. P. Sivakumar</b> Professor, Department of Electronics and Communication Engineering, Kalasalingam University, Krishnankoil-626126. Virudhunagar, Tamil Nadu, India.	
4	One representative from industry/corporate sector/allied area relating to placement	<b>Er.Francy Williams</b> Senior Engineer, All India Radio , Palayamkottai, Tirunelveli	 18/8/22
5	One Post Graduate meritorious aluminous nominated by the Principal	<b>Er.S.J. Jinolin Jacob</b> HR manager, US Operations Insigma Technologies Pvt Ltd Trivandrum	

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10	Dr.M.S.Sumi	Asst. Prof/ECE	m. s. Sumi
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12	Mrs.E.Francy Irudaya Rani	Asst. Prof/ECE	
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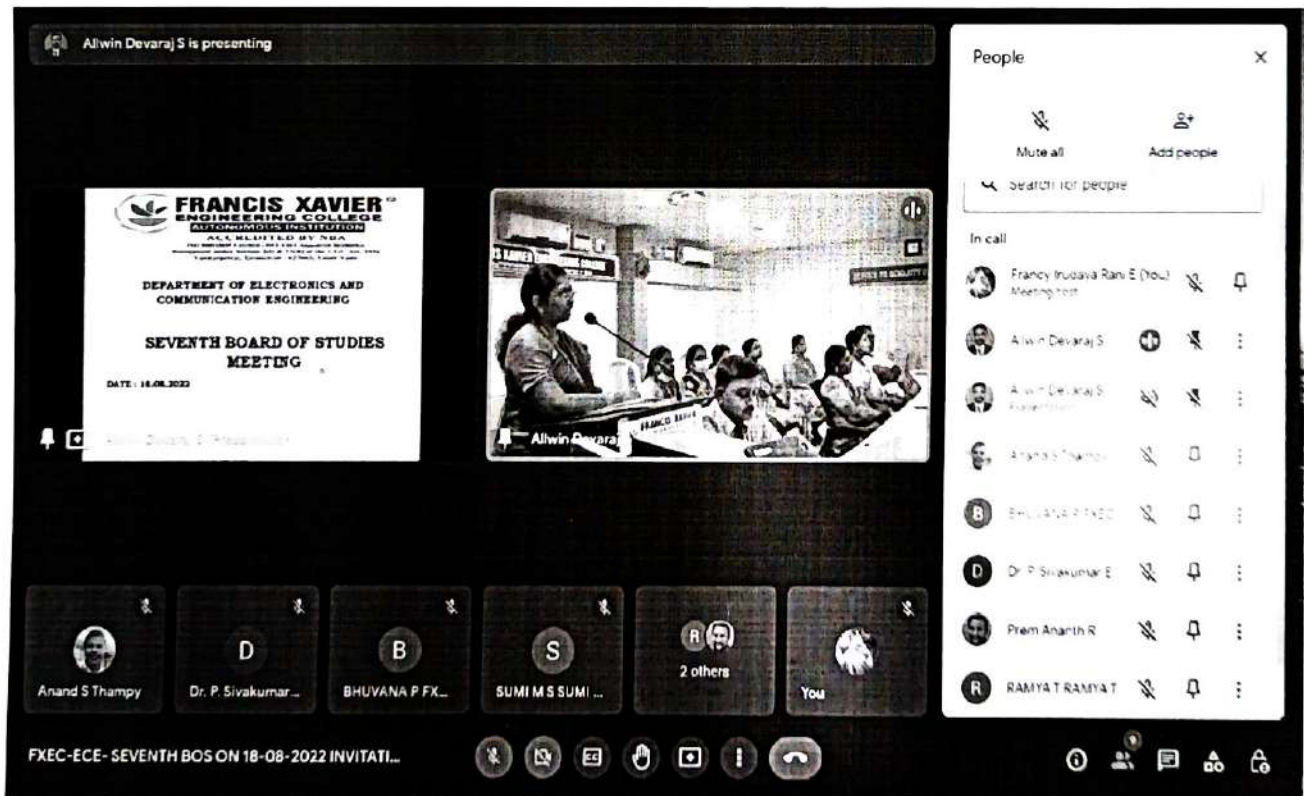
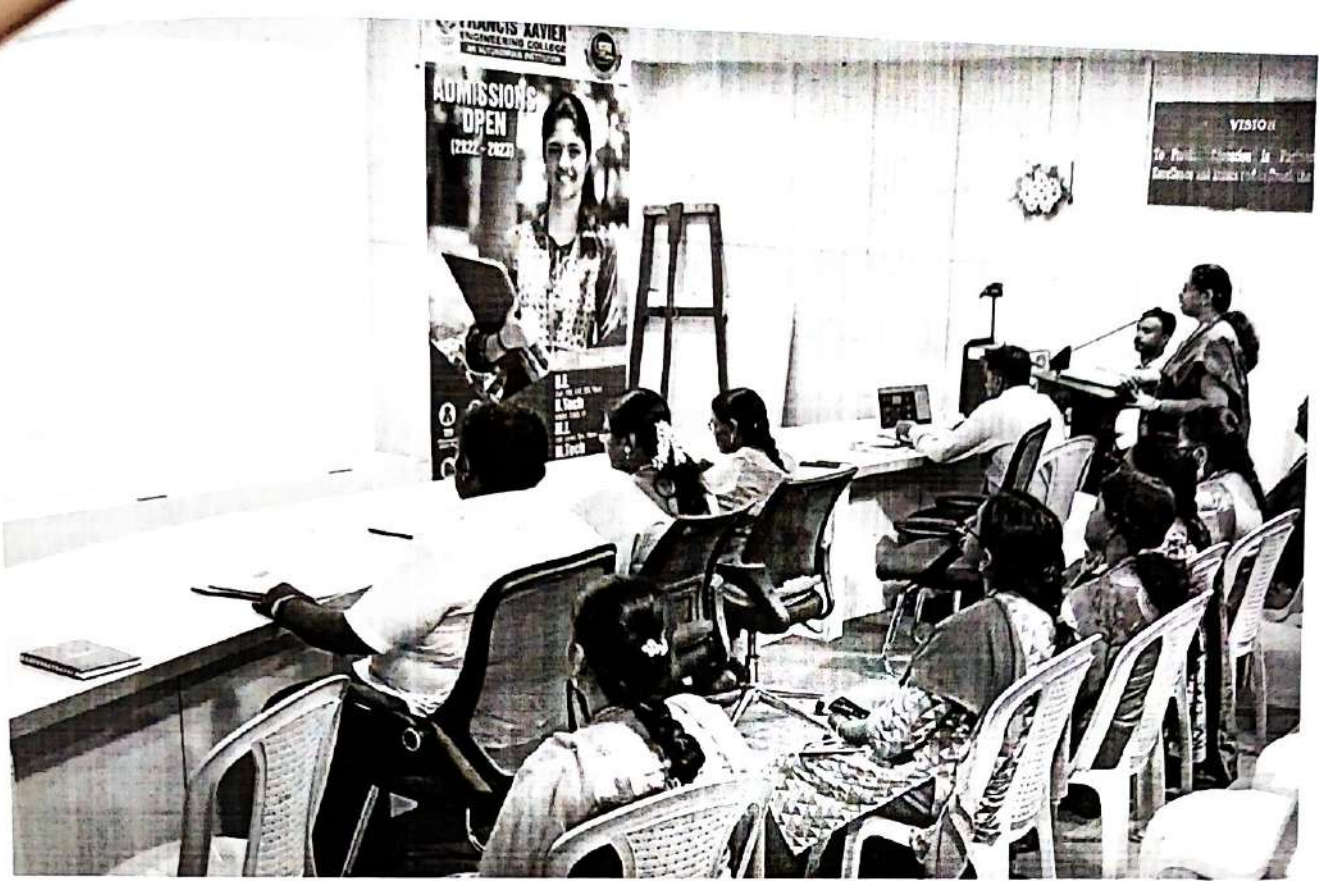
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4	Dr.M.Caroline Viola Stella Mary	ERP Head, Francis Xavier Engineering College, Tirunelveli	











Alwin Devaraj S is presenting

### CURRICULUM - B.E (ECE)-Regulation 2021

S.No	CATEGORY	CREDITS PER SEMESTER								TOTAL CREDIT	CREDITS IN %
		I	II	III	IV	V	VI	VII	VIII		
1	ISEM	3	2			6				11	6.62%
2	BS	13	4	4						20	12.04%
3	ES	9	8	5						22	13.25%
4	PC		5	13	18	12	9	10		67	40.34%
5	PE					3	6	9		18	10.84%
6	OE					3	6	3		12	7.22%
7	EEC			1	1	1	1	2		10	6.02%
<b>Total</b>		<b>74</b>	<b>19</b>	<b>23</b>	<b>19</b>	<b>21</b>	<b>24</b>	<b>22</b>	<b>10</b>	<b>166</b>	<b>100%</b>

FXEC-ECE- SEVENTH BOS ON 18-08-2022 INVITATI...

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- BHUVANA P FXEC
- Dr. P. Sivakumar E
- Pram Ananth R
- RAMYA T RAMYA T

Alwin Devaraj S    Anand S Thampy    Dr. P. Sivakumar...    BHUVANA P FX...    3 others    You

Alwin Devaraj S is presenting

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- RAMYA T RAMYA T
- SUMI M S SUMI M S



## ANNEXURE I

### List of NPTEL Courses for Approval

S.No	Course Id	NPTEL Course Name	Duration	Start/ End date
1	noc22-ee72	Principles of Signal Estimation for MIMO/ OFDM Wireless Communication	12 Weeks	Jul 25, 2022, Oct 14, 2022
2	noc22-ee88	Fiber Optic Communication Technology	12 Weeks	Jul 25, 2022
3	noc22-ee96	Mathematical Aspects of Biomedical Electronic System Design	12 Weeks	Jul 25, 2022
4	noc22-ee102	Signal Processing for mm Wave communication for 5G and beyond	12 Weeks	Jul 25, 2022
5	noc22-cs67	Artificial Intelligence : Search Methods For Problem solving	12 Weeks	Jul 25, 2022
6	noc22-cs76	Deep Learning for Computer Vision	12 Weeks	Jul 25, 2022
7	noc22-cs96	Introduction To Internet Of Things	12 Weeks	Jul 25, 2022
8	noc22-cs124	Deep Learning - IIT Ropar	12 Weeks	Jul 25, 2022
9	noc22-cs109	C-Based VLSI Design	12 Weeks	Jul 25, 2022
10	noc22-cs73	Introduction to Machine Learning	12 Weeks	Jul 25, 2022

## ANNEXURE II

### List of Specialization /Minor Degree in Internet of Things

FOURTH SEMESTER								
Code No.	Course	Category	L	T	P	C	H	
19IOT01	Introduction to Internet of Things	MC	3	0	0	3	3	
FIFTH SEMESTER								
19IOT02	Sensors and Actuators	MC	3	0	0	3	3	
SIXTH SEMESTER								
19IOT03	Embedded Systems for IoT	MC	3	0	0	3	3	
SEVENTH SEMESTER								
19IOT05	IoT with Arduino, ESP, and Raspberry Pi	MC	3	0	0	3	3	
EIGHTH SEMESTER								
19IOT04	Project Work	MC	6	0	0	6	6	