

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

(An Autonomous Institution)

Department of Electronics and Communication Engineering

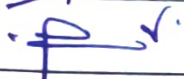
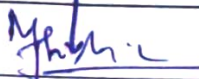
Board of Studies Meeting

Date : 09/05/2026

Venue : EEE Seminar Hall

MEMBERS PRESENT

| Sl. No. | Name & Designation                             | Signature                 |
|---------|------------------------------------------------|---------------------------|
| 1.      | Dr. N.B. BALAMURUGAN, PROFESSOR, ECE, TCE      | N. Balamurugan            |
| 2.      | Dr. J. MATHESWARAN, PRINCIPAL                  | J. Matheswaran            |
| 3.      | Dr. MALAYA KUMAR NATH, AP/ECE/NIT Puducherry   | Malaya Kumar Nath         |
| 4.      | ANCIL JOHN.M, PE/CDAC, TUM                     | Ancil John.M              |
| 5.      | Dr. S. Marie Seraphin Sijitha                  | S. Marie Seraphin Sijitha |
| 6.      | Dr. A. MILTON, PROF. ECE                       | A. Milton                 |
| 7.      | Dr. R. P. ANTO (JUNIOR), Dean Academics        | R. P. Anto                |
| 8.      | Dr. C. SELDEV CHRISTOPHER, Asst Dean Academics | C. Seldev Christopher     |
| 9.      | Dr. S. Caroline, Asso. Prof. / ECE             | S. Caroline               |
| 10.     | Dr. S. MARY VASANTHI, ASSO. PROF, ECE          | S. Mary Vasanthi          |
| 11.     | Dr. Y.R. Annie Bessant, Asso. Prof / ECE       | Y.R. Annie Bessant        |
| 12.     | S. Edwin Lawrence, Design Lead, Tessolve       | S. Edwin Lawrence         |
| 13.     | V. Femila Sario, AP / ECE                      | V. Femila Sario           |
| 14.     | Dr. T. K. K. K.                                | T. K. K. K.               |
| 15.     | Dr. T. Berjin Magizha, AP/ H&S, SXCE           | T. Berjin Magizha         |
| 16.     | Dr. T. Ajitha, AP/ ECE, SXCE                   | T. Ajitha                 |

|     |                                   |                                                                                      |
|-----|-----------------------------------|--------------------------------------------------------------------------------------|
| 17. |                                   |                                                                                      |
| 18. | Dr. C. Renit. AP/ECE              |   |
| 19. | Maceal Tony L AP/ECE              |   |
| 20. | Dr. M. Starwin, AP/ECE            |   |
| 21. | Dr. J. ARUN KING AP/ECE           |   |
| 22. | Dr. D. MARY FLORIDA               |   |
| 23. | K. BABY LISA, AP/ECE              |   |
| 24. | Dr. L. Femila, Asso. Prof./ECE    |   |
| 25. | Dr. T. Mary Little Flower, AP/ECE |   |
|     | Dr. S. ARSANA Asso Prof/ECE       |   |
| 26. | A-Anitha, AP/ECE                  |  |
| 27. |                                   |                                                                                      |
| 28. |                                   |                                                                                      |
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| 35. |                                   |                                                                                      |



**ST. XAVIER'S**  
CATHOLIC COLLEGE OF ENGINEERING  
(Autonomous)  
Chunkankadai, Nagercoil - 629003  
Kanyakumari District, Tamil Nadu

Approved by Anna University, Chennai  
Accredited with 'A' grade by NAA  
UPEP Accredited for UPEP, M.E. (Communication Systems & M.E. Medical Electronics) by NTA  
Approved by the Government of Tamil Nadu  
Recognized under section 2(F) & 12(B) of UGC Act, 1956  
UG Programs: ECE, EEE, Mech, CSE & IT  
MBA & MCA Programs Permanently Affiliated

## **Department of Electronics and Communication Engineering**

### **Board of Studies Meeting Minutes # 08**

Date: 09-05-2026

Time: 10.30 am - 1.00 pm

Venue: Physical Mode (Tesla Hall)

The Eighth Board of Studies (BoS) meeting for the Department of ECE was held on May 09, 2026, at 10:30 a.m. in the Tesla Hall. All faculty members of the department attended, joined by an Anna University nominee, two Subject experts, an industry representative, and a distinguished alumnus. The meeting commenced at 10.30 a.m. with a prayer by Dr.S.Maria Seraphin Sujitha, AP/ECE. Dr.T.Ajitha, AP/ECE, warmly welcomed the members. Dr. S. Caroline, Head of the Department of ECE, presented the detailed Curriculum (I to VIII semesters) and Syllabus for first and second semester UG programme for R2026. Dr.T.Latha, co-ordinator of M.E. Communication Systems outlined the curriculum and syllabi for the first year of the M.E Communication Systems programme (R2026). Dr. S.Mary Vasanthi, co-ordinator of M.E. Medical Electronics outlined the curriculum and syllabi for the first year of the M. E Medical Electronics programme (R2026), Dr.Y.R.Annie Bessant, co-ordinator of M.E. VLSI Design outlined the curriculum and syllabi for the first year of the M.E VLSI Design programme (R2026). All the BoS members offered their valuable suggestions, and the meeting concluded with a vote of thanks delivered by Dr. C.Renit, AP/ECE.

#### **University Nominee for BoS**

1. Dr.N.B.Balamurugan, Professor, Department of ECE, Thiagarajar College of Engineering, Madurai.

#### **Expert Members in the Subject from outside the college**

1. Dr. D. Jude Hemanth, Associate Professor/ ECE Karunya institute of Technology & Sciences, Coimbatore.
2. Dr. Malaya Kumar Nath, Assistant Professor/ ECE, NIT Puducherry, Thiruvettakudy, Karaikal, Puducherry.

#### **Representative from Industry**

1. Mr.S. Edwin Lawrence, Design Lead - DFT, Tessolve Semiconductors Pvt.Ltd., Whitefield Office, Bangalore.

#### **Postgraduate Meritorious Alumnus**

1. Mr. Ancil John M, Project Engineer, Centre for Development of Advanced Computing, Thiruvananthapuram.



### Agenda for the Meeting

- 08.01. Confirmation of the Seventh BoS meeting held on 13.12.2025 and Decision/Action Taken report.
- 08.02. Discussion on the Suggestions / Recommendations offered by the members in the Seventh Academic Council meeting and the Seventh Governing Body meeting.
- 08.03. Presentation of the proposed curriculum and syllabi and getting recommendation for approval for the Draft Curriculum and Syllabi of I year UG and PG Programmes for regulation 2026.
- 08.04. Getting approval for revision of PSO for UG Programme
- 08.05. Other matters, if any

### Discussion

#### 08.01. Confirmation of the Seventh BoS meeting held on 13.12.2025 and Decision/Action Taken report.

| Sl.No | Suggestions / Recommendations /Related to Curriculum and Draft syllabi by the members during VII BoS Meeting                                                                                          | Action Taken                  | Suggestions / Recommendations / Remarks by the members during VIII BoS Meeting |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------|
| 1.    | It was suggested to change the title of the course "EC26101 - Basic Electrical and Electronics Engineering" as "Basic Electronics Engineering" and include some basic Electronics concepts in Unit 1. | Changes are made as suggested | Confirmed                                                                      |
| 2.    | It was suggested to change the L T P of the Course EC26201 - Electronic Devices Theory and Characteristics as 30 0 30.                                                                                | Implemented                   | Confirmed and approved                                                         |
| 3.    | It was suggested to change the title of the course "EC26202 – Electrical Circuits and Network theorems" to "Passive Electronic Circuits and Network Theorems"                                         | Implemented                   | Confirmed and approved                                                         |
| 4.    | It was suggested to change the Course code of "IT26203 – Data Structures using C" with CS code.                                                                                                       | Implemented                   | Confirmed and approved                                                         |
| 5     | It was suggested to change the title of the course "EC26305 – Circuits Laboratory" as Electronics Circuits Laboratory.                                                                                | Implemented                   | Confirmed and approved                                                         |
| 6     | In Vertical 4, it was suggested to change the course "Advanced Deep Learning Architecture" as Deep Learning Architecture.                                                                             | Implemented                   | Confirmed and approved                                                         |
| 7     | It was suggested to add Quantum Computing course instead of Quantum Communication in Vertical 6.                                                                                                      | Implemented                   | Confirmed and approved                                                         |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 8  | It was suggested to add Verilog Concept as one unit in the course "EC26301 - Digital Logic Design" while framing the syllabus.                                                                                                                                                                                  | Will be considered while framing the syllabus.                                                                                                                                                                                                  | Confirmed              |
| 9  | In Industry Collaborated Courses, it was suggested to add LabVIEW based course and in the course Unity 3D for Home Automation add some basics of VR.                                                                                                                                                            | Will be considered                                                                                                                                                                                                                              | Confirmed              |
| 10 | In Open Elective course list, it was suggested to add one Basic Electronics course                                                                                                                                                                                                                              | Included the course "Electronics Fundamentals"                                                                                                                                                                                                  | Confirmed and approved |
| 11 | It was suggested to avoid course titles that begin with words such as Basics, Advanced or Introduction.                                                                                                                                                                                                         | Implemented                                                                                                                                                                                                                                     | Confirmed and approved |
| 12 | It was suggested to change the title of "CU26103 - Advanced Digital Signal Processing" as Digital Signal Processing, Change the name Mini project and add only experiments. Change the Unit 5 title as "DSP Applications", add some applications related with DSP and add Quadrature Mirror Filter in 5th unit. | Since in UG programme, there is a course "Digital Signal Processing", we retained "Advanced Digital Signal Processing" for M.E. Communication Systems. Added some applications related with DSP and added Quadrature Mirror Filter in 5th unit. | Confirmed and approved |
| 13 | It was suggested to change the title of the course "CU26202 Machine Learning" as Machine Learning for Communication System or Deep Learning.                                                                                                                                                                    | The course "Machine Learning" is changed to "Deep Learning"                                                                                                                                                                                     | Confirmed and approved |
| 14 | It was suggested to frame Course Outcomes (COs) at higher cognitive levels in accordance with Outcome-Based Education guidelines, specifically for the course CU26103 - Advanced Digital Signal Processing.                                                                                                     | COs were framed as suggested                                                                                                                                                                                                                    | Confirmed and approved |
| 15 | In Elective courses, it was suggested to add some courses like 5G Communication, IoT, Antenna Design.                                                                                                                                                                                                           | Two courses are added in Elective<br>1) 5G Communication Networks                                                                                                                                                                               | Confirmed              |



|    |                                                                                                                                                                     |                                                                                                                   |                        |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------|
|    |                                                                                                                                                                     | 2)Antenna Design for IoT applications                                                                             |                        |
| 16 | It was suggested to replace either the course "VL26201- Multicore Architecture and ISA Verification" or an Elective with the course Semiconductor Device Modelling. | The course VL26201- Multicore Architecture and ISA Verification" is replaced with Semiconductor Device Modelling. | Confirmed and approved |
| 17 | It was suggested to add more EDA tools in the theory part and include more practical using EDA tools.                                                               | Introduced TCP courses where the suggestions will be incorporated                                                 | Will be Considered     |

**08.02. Discussion on the Suggestions / Recommendations offered by the members in the Seventh Academic Council meeting and the Seventh Governing Body meeting**

There were NO Programme Specific Suggestions / Recommendations offered by the members in the Seventh Academic Council meeting.

**Suggestions / Recommendations offered during Seventh Governing Body meeting**

| Sl. No. | Suggestions / Recommendations offered by the members during Seventh Governing Body meeting                                                 | Action Taken                                                  |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1.      | It was suggested to change the title of the course "EC26101 - "Basic Electronics Engineering" as "Fundamentals of Electronics Engineering" | Changes are implemented and approved in the VIII BoS meeting. |

**08.03. Presentation of the proposed curriculum and syllabi and getting recommendation for approval for the Draft Curriculum and Syllabi of I year UG and PG Programmes for Regulation 2026.**

| Sl.No                                     | Suggestions / Recommendations /Related to Curriculum and Draft syllabi by the members during VIII BoS Meeting                                                                                                                                                                     | Action Taken                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <b>Curriculum and Syllabi of B.E. ECE</b> |                                                                                                                                                                                                                                                                                   |                                            |
| 1.                                        | It was suggested to replace Unit 4 & 5 Electrical contents of EC26101- Fundamentals of Electronics Engineering into Electronics-based content and refine the CO as per each unit.                                                                                                 | Changes are made as suggested and approved |
| 2.                                        | It was suggested to add the topic on LDR in the 5 <sup>th</sup> unit of the course "EC26201- Electronic Devices Theory and Characteristics (Lab Integrated)", and change the title of Unit 3 into AC Analysis of BJT Amplifier also include any one application in Unit2 - Unit5. | Changes are made as suggested              |

|                                                             |                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.                                                          | It was suggested to keep the course “Data Analytics using Python” (Lab Integrated) in 2 <sup>nd</sup> semester, CS26203 - Data Structures using C (Lab Integrated) in 3 <sup>rd</sup> semester, and include OOPS course in 4 <sup>th</sup> semester, JAVA in the 5 <sup>th</sup> semester. | 2 <sup>nd</sup> and 3 <sup>rd</sup> semester courses are swapped and OOPS, JAVA will be added in the 4 <sup>th</sup> and 5 <sup>th</sup> semester. |
| 4.                                                          | It was suggested to modify the title of the course “Unity 3D for Home Automation” to “Unity 3D for Home Automation using Solvent” under Industry Collaborated Courses (ICC)                                                                                                                | Will be considered in the Industry Collaborated Course.                                                                                            |
| <b>Curriculum and Syllabi of M.E. Communication Systems</b> |                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
| 1.                                                          | It was suggested to add AI related course in elective.                                                                                                                                                                                                                                     | AI in Wireless Communications is included                                                                                                          |
| 2.                                                          | It was suggested to remove (Common to ME Communication Systems and ME Medical Electronics) in the course “MA26C06 Mathematical Modelling and Computational Techniques in Engineering”                                                                                                      | Changes are made as suggested                                                                                                                      |
| <b>Curriculum and Syllabi of M.E. VLSI Design</b>           |                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
| 1.                                                          | It was suggested to include EDA tools in the relevant VLSI courses                                                                                                                                                                                                                         | Suggestions are incorporated                                                                                                                       |
| 2.                                                          | It was suggested to add AI related course in elective.                                                                                                                                                                                                                                     | Machine learning for VLSI is included                                                                                                              |

#### 08.04. Getting approval for revision of PSO for UG Programme

| Existing PSO                                                                                                                                                                                                                                                                                                                                                                                                  | Reframed PSO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PSO1: Analyze, design and develop solutions by applying foundational concepts of electronics and communication engineering.</p> <p>PSO2: Apply design principles and best practices for developing quality products for scientific and business applications.</p> <p>PSO3: Adapt emerging information and communication technologies (ICT) to innovate ideas and solutions to existing/novel problems.</p> | <p>PSO1: Design and implement efficient digital, analog, and mixed-signal integrated circuits using modern EDA tools, focusing on low power, high performance, and reliability.</p> <p>PSO2: Develop algorithms and systems for processing signals and images, enabling real-time analysis, pattern recognition, and computer vision applications.</p> <p>PSO3: Design and deploy IoT-based embedded solutions by integrating sensors, communication protocols, and edge intelligence to address real-world challenges</p> |

It was suggested to compress PSO and use Generic terms.

#### Compressed PSO

PSO1: Design and implement reliable electronic circuits using modern tools.

PSO2: Develop signal and image processing solutions for real-time applications.

PSO3: Design and deploy embedded and Internet of Things-based systems for real-world problems.



**08.05. Other matters, if any**

| Sl. No. | Suggestions / Recommendations offered by the members during Seventh Governing Body meeting | Action Taken                           |
|---------|--------------------------------------------------------------------------------------------|----------------------------------------|
| 1       | It was suggested to specify the industry name for each Industry Collaborated Course.       | Changes are considered and implemented |
| 2       | It was suggested to frame unit wise course outcome for all the courses.                    | Changes are considered and implemented |
| 3       | It was suggested to map the relevant SDG goal for all the courses.                         | Changes are considered and implemented |
| 4       | It was suggested to include latest edition in text and reference books                     | Changes are considered and implemented |
| 5       | It was suggested that all course outcomes should be at higher cognitive level.             | Changes are considered and implemented |



  
**Dr. S. SRINIVASA MURTHY, M.E., Ph.D.**  
**Head of the Department**  
**Dept. of Electronics & Communication Engg**  
**St. Xavier's Catholic College of Engineering**  
**Chunkankadai, Nagercoil - 794001**

*Salvatore*  
Dean Academics

Principal

Dr.N.B.Balamurugan  
(University Nominee)

Dr. D. Jude Hemanth  
(Subject Expert)

Dr. Malaya Kumar Nath  
(Subject Expert)

  
Mr. S. Edwin Lawrence  
(Industry Representative)

Mr. M. Ancil John  
(Meritorious Alumnus)