

**PAAVAI ENGINEERING COLLEGE**  
(Autonomous)  
**DEPARTMENT OF AERONAUTICAL ENGINEERING**

**Minutes of 12<sup>th</sup> Board of Studies Meeting**

Venue: Placement G.D hall  
Date and Time: 02.07.2025, 1.30 p.m.

The 12<sup>th</sup> Board of studies meeting of the Aeronautical Engineering Department was held on 02.07.2025 (Wednesday), at 1.30 pm Placement **G.D Hall** through offline mode. The following members were present for the meeting.

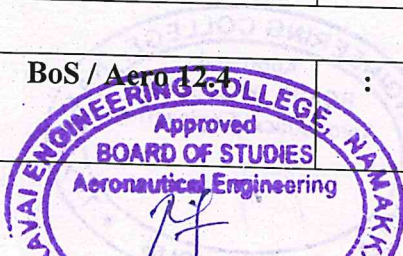
S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.R.Arravind	HoD/ Aero	Chairman	Paavai Engineering College, Namakkal.
2.	Dr.A.Saravanakumar	Assistant Professor (Sr.Gr.)/ Aerospace	University Nominee	MIT Campus, Chennai
3.	Dr.C.Ramesh,	Associate Professor/Aero	Academic Expert	Hindustan Institute of Technology and Science, Chennai
4.	Dr.T.Selvakumaran	Associate Professor/ Aero	Academic Expert	SRM Institute of Science & Technology, Chennai
5.	Mr.S.Gopinathan	Founder & Director	Industry Expert	Dileka Aerospace & Innovations, Nilgiris.
6.	Ms.C.Dhivya	Part Applicability Specialist Organization	Alumni	Boeing India Pvt Ltd, Chennai
7.	Dr.K.Selvi	Dean Academics	Special Invitee	Paavai Engineering College
8.	Dr.D.Deepak	ASP/Aero	Members	Paavai Engineering College
9.	Mr.P.Prasanna	AP/Aero		
10.	Mr.D.Rajkumar	AP/Aero		
11.	Mr.G.Sasi	AP/Aero		
12.	Mr.K.Gokulnath	AP/Aero		
13.	Mr.S.Suthagar	AP/Aero		
14.	Mrs.S.MaryPriya	AP/Aero		



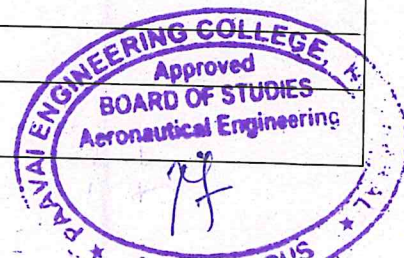
### Agenda

- Welcome address by the Chairman – BoS, Aeronautical Engineering
- Vision and mission of Institution and Department.
- PEOs, POs and PSOs of UG Programme.
- Confirmation of the minutes of the 11<sup>th</sup> Board of studies meeting held on 20.12 2024 and action taken report.
- To consider & approve the Curriculum and Syllabus of 5<sup>th</sup> semester and Professional Electives (Verticals IV, V and VI) of B.E. Aeronautical Engineering Programme under Regulations 2023.
  - Curriculum, Credits and its structure, Syllabus
  - Details of Fast track students and their courses.
  - Amendments if any
- To discuss and approval Transfer of Credits.
- To discuss and approval for fast-track mode for eligible students.
- To discuss and approval for Assessment Weightage.
- Any other items.

MINUTES OF THE BOS MEETING		
BoS / AERO 12.1	:	The Board of studies Chairman welcomed the members.
BoS / AERO 12.2	:	The Vision and Mission statements of the Institution and Department were presented. The members suggested for the updation of the department vision and mission.
<b>APPROVED THE SAME.</b>		
BoS / Aero 12.3	:	PEOs, POs and PSOs of UG Programme were described and members suggested for the updation of PEOs and PSOs.
<b>APPROVED THE SAME.</b>		
BoS / Aero 12.4	:	The minutes of the 11 <sup>th</sup> Board of Studies meeting held on 20.12.2024 were communicated to the members. The



		comments received have been incorporated and placed for confirmation. The same was approved by the committee members.
<b>APPROVED THE SAME</b>		
<b>BoS / Aero 12.5</b>	:	To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of V semester and verticals IV, V and VI for B.E - Aeronautical Engineering Programme (CBCS) to be offered under Regulations 2023 with effect from the Academic Year 2023-2024 onwards.
<b><u>V SEMESTER</u></b>		
<ul style="list-style-type: none"> <li>Members suggested using updated text books and reference books</li> <li>Members suggested to add separate minor degree course for Aeronautical Engineering</li> </ul>		
1	<b>AE 23501- FLIGHT MECHANICS</b>	
<ul style="list-style-type: none"> <li>In unit IV replace Static stability.</li> <li>Map the Course Outcomes (COs) with Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) 9, 10, and 11.</li> </ul>		
2.	<b>AE23502- ROCKET PROPULSION</b>	
<ul style="list-style-type: none"> <li>It is suggested to change the title to Rocket Propulsion.</li> </ul>		
3	<b>AE23504- AIRCRAFT STRUCTURES</b>	
<ul style="list-style-type: none"> <li>In unit V Structural Analysis of Aircraft add case studies related to AI.</li> </ul>		
4	<b>AE 23506- AIRCRAFT STRUCTURES LABORATORY</b>	
<ul style="list-style-type: none"> <li>Suggested changing the title of Experiment Number 9.</li> </ul>		
<b><u>VERTICAL –IV SPACE TECHNOLOGY</u></b>		
5	<b>AE23451-SPACECRAFT ATTITUDE DYNAMICS</b>	
<ul style="list-style-type: none"> <li>Suggest to elaborate the content in Unit I ,Unit II, Unit V</li> </ul>		
6.	<b>AE23452 - ORBITAL MECHANICS</b>	
<ul style="list-style-type: none"> <li>Two body problem –end body problem</li> <li>Orbital motions from equation of motion</li> </ul>		
7.	<b>AE23456- LAUNCH VEHICLE DESIGN CONCEPTS</b>	
<ul style="list-style-type: none"> <li>Unit III and Unit IV content need to simply.</li> </ul>		



<b><u>VERTICAL V-AIRCRAFT MAINTENANCE</u></b>	
8.	<b>AE23552 -AIRFRAME MAINTENANCE AND REPAIR</b>
<ul style="list-style-type: none"> <li>• Unit III and IV need to interchange.</li> </ul>	
<b><u>VERTICAL VI –EMERGING TECHNOLOGY</u></b>	
Members suggested using updated text books and reference books.	



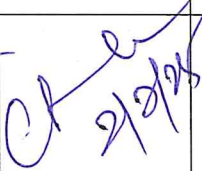
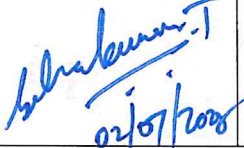

**RESOLVED AND APPROVED THE SAME.**

BoS / Aero 12.6	:	Discussed and got approved about Transfer of Credits for NPTEL Courses.	
<b>APPROVED THE SAME.</b>			
BoS / Aero 12.7	:	Discussed and got approved about re-admitted students for additional course. BALA-G III Year / Academic Year – (2025-2026)	
<b>RESOLVED AND APPROVED THE SAME.</b>			
<b>FAST TRACK STUDENTS LIST</b>			
NAME OF THE STUDENTS	V SEM	VI SEM	VII SEM
ABISHEK.M	Industrial Aerodynamics	Rockets and Missiles	Airframe Maintenance and repair
BoS / Aero 12.8	:	Discussed and got approved about fast track mode for eligible students.	
BoS / Aero 12.9	:	Discussed and got approved about Assessment Weightage.	



**RESOLVED AND APPROVED THE SAME.**

The above suggestions were given by the members and approved the Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree for UG under R2023 for the students admitted in the year 2023-2024 and NPTEL Course & Professional Elective Exemption and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.R.Arravind	Dr.A.Saravanakumar	Dr.C.Ramesh,	Dr.T.Selvakumaran.	Mr.S.Gopinathan	Ms.Dhivya.C
Signature			 2/2/24	 02/07/2024		ABSENT



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.i

Date: 21.06.2025



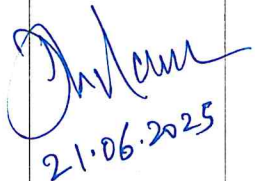
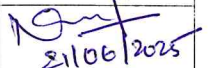
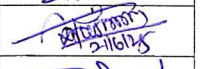

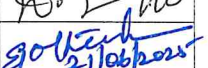
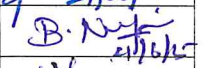
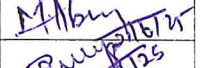
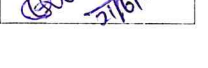

## DEPARTMENT OF BIOMEDICAL ENGINEERING

### 9th Board of Studies Meeting

Venue: GD hall

Date and Time: 21.06.2025, 02.00 pm

Members Present

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature with Date
1.	Dr.T.Arunkumar	Professor/ BME	Chairman	Paavai Engineering College	
2.	Dr. T. Jayasree	Assistant Professor, Centre for Medical Electronics	University Nominee	College of Engineering,Guindy Anna University Chennai	 21/06/2025
3.	Dr Vijayalakshmi	Professor, Dept of Medical Electronics Engineering	Academic Expert	BMS college of Engineering, Bangalore	Online
4.	Dr. D.K. Ravish	Associate Professor & Head Department of Medical Electronics Engineering	Academic Expert	Dr.Ambedkar Institute of Technology, Bangalore	 21.06.2025
5.	Mr. S. Kumar	Vice President, Technical and Business Development	Industry Expert	TMI Systems, Bangalore	S.Kumar 21/06/2025
6.	Ms. Kaushika Nachimuthu	Service Engineer	Alumni	BioGen, Bangalore	 21/06/2025
7.	Mr.D.Murugesan	ASP/BME	Members Paavai Engineering College		 21/06/25
8.	Dr.S.Rajasekaran	ASP/BME			
9.	Dr.N.Jayanthi	ASP/BME			
10.	Mr.S.Iotheeshwaran	AP/BME			 21/06/2025
11.	Mrs.B.Niranjadevi	AP/BME			 21/6/25
12.	Mrs. M. Abinaya	AP/BME			 21/6/25
13.	Ms. V. Ramya	AP/BME			 21/6/25

**PAAVAI ENGINEERING COLLEGE**

(Autonomous)

**DEPARTMENT OF BIOMEDICAL ENGINEERING**

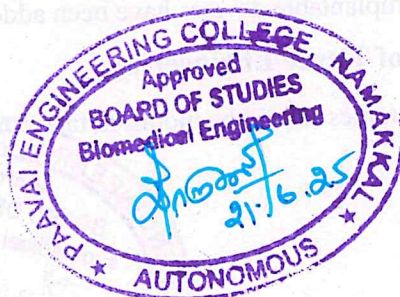
**Minutes of 9<sup>th</sup> Board of Studies Meeting**

**Venue: GD Hall**

**Date and Time: 21.06.2025, 02.00 p.m.**

The 9<sup>th</sup> Board of studies meeting of the Biomedical Engineering Department was held on 21.06.2025 (Saturday), at 02.00 pm in GD Hall, Temple Tower Building, Paavai Engineering College, Pachal. The following members were present for the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.T.Arunkumar	Professor and Head of the Department	Chairman	Paavai Engineering college
2.	Dr. T. Jayasree	Assistant Professor SI.Gr.	University Nominee	Dept of Biomedical Engineering
3.	Dr. K. Vijayalakshmi	Professor	Academic Expert-1	Dept of Medical Electronics Engineering; BMS college of Engineering, Bangalore
4.	Dr. D.K. Ravish	Associate Professor and Head of the Department	Academic Expert-2	Department of Medical Electronics Engineering Dr.Ambedkar Institute of Technology, Bangalore, India
5.	Mr. S. Kumar	Vice President	Industry Expert	TMI Systems, Bangalore
6.	Ms. Kaushika Nachimuthu	Service Engineer	Alumni	BioGen, angalore.
7.	Mr.D.Murugesan	ASP/BME	Members Paavai Engineering College	
8.	Dr.S.Rajasekaran	ASP/ BME		
9.	Dr.N.Jayanthi	ASP/ BME		
10.	Mr.S.Jotheeswaran	AP/ BME		
11.	Mrs.B.Niranjana Devi	AP/ BME		
12.	Mrs.M.Abinaya	AP/ BME		
13.	Ms.V.Ramya	AP/ BME		



## AGENDA

- The Chairman, Board of Studies welcomed the members.
- Confirmation of the minutes of the 8<sup>th</sup> Board of studies meeting held on 23.12.2024 and action taken report.
- Presentation of Curriculum and Syllabus of Verticals 3,4,5,6, minor courses and courses of 5<sup>th</sup> semester B.E. Biomedical Engineering Programme under Regulations 2023.
  - Programme Credit details
  - Curriculum, Curriculum structure
  - Syllabus
  - List of vertical courses
  - List of minor courses
  - List of Open Electives
  - List of Mandatory courses
- To consider & approve the Curriculum structure & Syllabi of verticals 3,4,5,6, minor courses and courses of 5<sup>th</sup> semester (CBCS) to be offered under Regulations 2023.
- Any other items.

**BoS / BME 10.1** : The Board of studies Chairman welcomed the members.

**BoS / BME 10.2** : The minutes of the 8<sup>th</sup> Board of Studies meeting held on 23.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.

**BoS/ BME 10.3** : To consider & approve the Curriculum, Curriculum Structure & Syllabi of verticals 3,4,5,6, minor courses and courses of 5<sup>th</sup> semester for B.E. – Biomedical Engineering programme (CBCS) to be offered under R-2023 with effect from the Academic Year 2023-2024 onwards.

### **Suggestions given by the members regarding :**

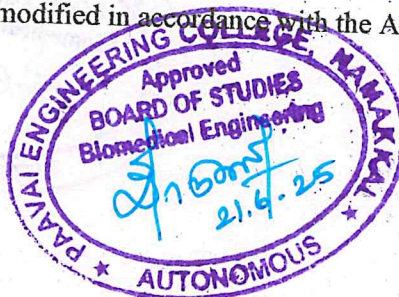
#### **VERTICAL I:**

➤ **BM23155- Bioprinting**

- Case studies on implantable devices have been added to Unit 5.

➤ **BM23156- Principles of Tissue Engineering**

- Unit 4 and unit 5 topics should be modified in accordance with the Anna University syllabus



➤ **BM23158- Ethical issues and Intellectual Property Rights**

- The title of Unit 2 should be changed.

**VERTICAL III:**

➤ **BM23354-Biofluid Mechanics**

- Case studies on space medicine should be added to the unit 4
- Ocular Mechanics should be removed from Unit 2 and refer Y.C. Fung book for cellular mechanics.
- Problem solving with CFD topic should be removed from unit 5.

➤ **BM23356-Bone Remodeling**

- Bone fracture analysis, bone stress and strain analysis, and mechanical properties of bone should be added to Unit 5.
- All units should include implant device topics relevant to individual organ systems.

➤ **BM23357-Sports Mechanics**

- The course name should be changed to either **Sports Mechanics** or **Sports Technologies**.

**VERTICAL IV:**

➤ **BM23455-Virtual Instrumentation**

- case studies need to be included in unit 5.

**VERTICAL V:**

➤ **BM23551- Wearable Devices**

- Applications and case studies related to gait analysis should be included

➤ **BM23552-Body Area Networks**

- Gait analysis and sports medicine topics should be removed from unit 5.
- Completely reframe the contents in unit 4 and 5.

➤ **BM23553-Virtual Reality and Augmented Reality in Healthcare**

- Suggested to include virtual reality model in unit 1.
- Suggested to include rehabilitation application in unit 5.

➤ **BM23554- Telehealth Technology**

- Suggested to include teleconference, equipment of telemedicine, PSTN, POT.
- In unit 2, GSM technology need to be included.

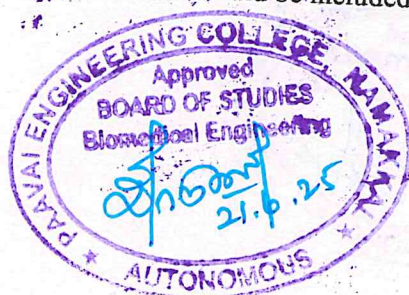
➤ **BM23556-Telemedicine and PACS**

- Suggested to combine this course with telehealth technology course.

**VERTICAL VI:**

➤ **BM23651- Speech and Audio Signal Processing**

- Suggested to reduce the content of unit 1.
- The topic of Speech Disorders should be included in a suitable unit



➤ **BM23652-Brain Computer Interface and Applications**

- Hardware components are not essential in Unit 4.

**VERTICAL for MINOR:**

➤ **BM23851- Biology for Engineers**

- Suggested to remove CAM cycle from unit 3.

➤ **BM23855-Rehabilitation Engineering**

- Rehabilitation Engineering should be replaced with Sports Biomechanics.

**5<sup>th</sup> semester:**

**BM23501-Biosignal Processing**

- Course name should be changed to Signal Processing for Biomedical Engineering.
- Case studies on ECG and EEG should be added to Unit 5.

**BM23502-Diagnostic and Therapeutic Equipment**

- Recording and analysis of EEG should be added to Unit 2.
- Audiometer and Refractometer need to be added in Unit 5.
- Diathermy and its types should be included in one of the units.
- The term 'Sensory' should be replaced with 'Diathermy' and 'Endoscopy'
- ESA, Diathermy, and Safety Analysis have been added to Unit 5 under Advanced Equipment.

**BM23503 – Healthcare and Hospital Management**

- The title of Unit 1 has been changed to 'Health in Hospital'
- Health Insurance Portability and Accountability topic have been added to Unit 3.
- The concept of Telemedicine has been added to Unit 5.

**BM23604-Human Assist Devices**

- Speech therapy equipment, visual aids, low vision cameras, and magnifiers have been added to Unit 4.
- In unit 5, AI-Powered Wearable Device for the Visually Impaired topic should be changed to case studies on wearable devices.

**BM23505- Biosignal Processing Laboratory**

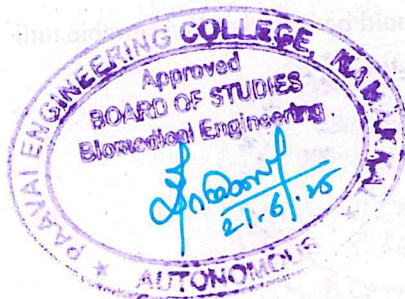
- The term 'correlation of the signals' should be replaced with 'analysis' or 'studies of the signals'.
- Notch filter should be included under the classification of filter types.

**BM23506- Diagnostic and Therapeutic Equipment Laboratory**

- The word 'analysis' should be changed to 'study' in the context of Shortwave Diathermy.

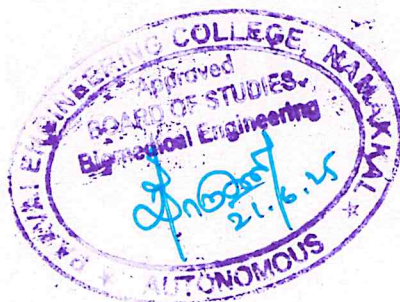
**BM23504-Biocontrol Systems**

- The basics of M and N circles and Nichol's chart should be included in Unit 3.



## GENERAL SUGGESTIONS:


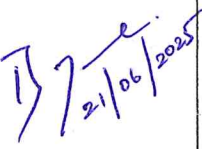
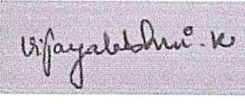



- Human Assist Devices should be moved to the sixth semester.
- Radiological equipment has been moved to Semester 6.
- The AI Lab should be removed from Semester 7.
- Human Assistive Devices (HAD) should be included in Semester 6, and Biocontrol Systems (BCS) should be shifted from Semester 6 to Semester 5.
- The Embedded Systems and IoMT Laboratory has been shifted to Semester 7.
- Rehabilitation has been moved to the vertical.
- Hospital internship should be included in Semester 6.
- Medical Ethics and Standards should be included as a core subject.
- Course outcomes should be framed using general action verbs.
- Industry professionals should be involved in delivering professional development.



**RESOLVED AND APPROVED THE SAME.**

**BoS/BME10.4: To consider & Approve the Curriculum Structure& Syllabi of verticals 3,4,5,6, minor courses and courses of 5<sup>th</sup> semester (CBCS) to be offered under R-2023.**

The above suggestions were given by the members and approved the syllabi for verticals 3,4,5,6, minor courses and courses of 5<sup>th</sup> semester under R2023 for the students admitted in the year 2025-2026and curriculum structure.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.T.Arunkumar Professor and Head of the Department- BME	Dr.T.Jayasree Assistant Professor Sl.Gr Dept of Biomedical Engineering CEG campus	Dr.K. Vijayalakshmi Professor Dept of Medical Electronics Engineering; BMS college of Engineering, Bangalore	Dr.D.K.Ravish Department of Medical Electronics Engineering Dr.Ambedkar Institute of Technology, Bangalore	Mr. S. Kumar Vice President TMI Systems, Bangalore	Ms. Kaushika Nachimuthu Service Engineer BioGen, Bangalore.
Signature		 21/06/2025	 vijayalakshmi.k			

**PAAVAI ENGINEERING COLLEGE**  
(Autonomous)  
**DEPARTMENT OF CIVIL ENGINEERING**

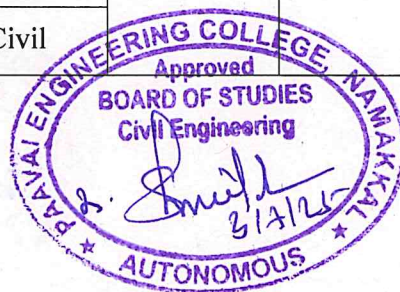
**Minutes of 12<sup>th</sup> Board of Studies Meeting**

**Venue: Placement GD Hall**

**Date and Time: 03.07.2025, 10.00 a.m.**

The 12<sup>th</sup> Board of studies meeting of the Civil Engineering Department was held on 03.07.2025 (Thursday), at 10.00 am in Placement GD Hall, Temple Tower Building, Paavai Engineering College, Pachal. The following members were present for the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Prof.K.Sharmiladevi	HoD/ Civil	Chairman	Paavai Engineering College, Namakkal.
2.	Dr.S.Sundari	Associate Professor/Civil	University Nominee	Government College of Engineering, Salem.
3.	Dr.V.Senthilkumar	Assistant Professor/Civil	Academic Expert	National Institute of Technology , Puduchery, Karaikal
4.	Dr.R.Prasanna Venkatesan	Associate Professor / School of Civil Engineering	Academic Expert	VIT University, Vellore
5.	Er.N.Chandrasekaran.M.E (Ph.D),	Senior Structural Consultant	Industry Expert	NAC Consultant, Tiruppur
6.	Er.Visanth Renu, M.S.,	Assistant Engineer (BIM)	Alumni	Arcadis, Bangalore
7.	Dr.K.Selvi	Dean Academics	Special Invitee	Paavai Engineering College
8.	Mr.A.Jayapal	AP/Civil	Members	Paavai Engineering College
9.	Mr.P.Vignesh	AP/Civil		
10.	Mr.N.Moorthi	AP/Civil		
11.	Mr.M.Rajkannan	AP/Civil		
12.	Mrs.S.Rajeswari	AP/Civil		
13.	Mrs.B.Karthiga	AP/Civil		
14.	Mrs.B.Kiruthika	AP/Civil		
15.	Mrs.S.Sowdeshwari	AP/Civil		



## Agenda

- Welcome Address
- Vision and mission of Institution and Department.
- PEOs, POs and PSOs of UG and PG Programme.
- Confirmation of the minutes of the 11<sup>th</sup> Board of studies meeting held on 24.12.2024 and action taken report.
- To consider & approve the Curriculum and Syllabus of 5<sup>th</sup> semester, Verticals IV, V, VI and Minor courses of B.E Civil Engineering Programme under Regulations 2023.
  - Curriculum, Credits and its structure
  - Syllabus of 5th semester, Verticals IV, V, VI and Minor courses
  - List of Professional Electives
  - List of Verticals
  - List of Open Electives
  - List of Value added courses
  - List of Mandatory courses
- To discuss and approve Amendments (if any)
- To discuss about B.E/B.Tech (Minor in other Specialization)
- To discuss and approve Transfer of Credits.
- To discuss and approve Assessment Weightage.

### Minutes of the BoS Meeting

- BoS / CIVIL 12.1** : The Board of studies Chairman welcomed the members.
- BoS / CIVIL 12.2** : Vision and mission of Institution and Department were described.  
**APPROVED THE SAME.**
- BoS / CIVIL 12.3** : PEOs, POs and PSOs of UG Programme were described.  
**APPROVED THE SAME.**
- BoS / CIVIL 12.4** : The minutes of the 11<sup>th</sup> Board of Studies meeting held on 24.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.  
**APPROVED THE SAME.**
- BoS / CIVIL 12.5** : To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of 5th semester, Verticals IV, V, VI and Minor courses syllabus for B.E Civil Engineering Programme (CBCS) to be offered under Regulations 2023 with effect from the Academic Year 2023-2024 onwards.



**Suggestions given by the members regarding UG syllabus:**

**Semester – V**

1. **CE23501 - Design of Reinforced Concrete Structures**
  - It is suggested to remove the working stress method of design from Unit I.
  - Can include design of underground water tank in Unit V.
2. **CE23502 – Structural Analysis I**
  - Unit I – Analysis of Trusses can be moved to Unit V.
3. **CE23503 - Foundation Engineering**
  - The content “Strength parameters and Evaluation of Liquefaction potential” to be removed from Unit I.
  - Can include the topic “Dynamic Cone Penetration Test (DCPT)” under penetration test in Unit I.
  - Remove routine test from unit IV.
  - Can include IS codal provisions as reference books.
  - Can include “Pile Design and Construction Practice” Tomlinson, Michael and Woodward, John, CRC Press, 6<sup>th</sup> edition as reference book.
4. **CE23505 - Highway Engineering**
  - Can include the topic Applications of AI in Highway maintenance in Unit IV.
5. **CE23507 – Survey Camp**
  - Can include the Exercises – Boundary marking, Drone Operation (Demonstration).

**Vertical – IV**

1. **CE23451 - Climate Change Adaptation and Mitigation**
  - Can include the topic impacts of climatic change: case studies in Unit III.
  - Can include the topic AI applications in Climate management in Unit V.
2. **CE23455 - Solid and Hazardous Waste Management**
  - Suggested to change the course title to “Industrial Waste Water Management”
  - Can include the content of Industrial waste management, source, collections and treatment within the 4 units and last unit to be related to hazardous waste.



3. **CE23456 – Air and Noise Pollution Control Engineering**
  - Can include the topic “Noise pollution effects on Human beings, Plants and Animals” in unit V.
  - Can include the topic permissible limits of air and Noise pollution as per regulatory provisions.
4. **CE23457 – Environmental Policy and Legislations**
  - Can remove the articles, IPC number, constitutions number and names from unit II.
  - Can include UN sustainable development goals in syllabus.
  - Can include Tamilnadu state and central Government Environmental Policy and Legislations in syllabus.

#### **Vertical – V**

1. **CE23552 - Mass Rapid Transportation Systems**
  - Can change the title of Unit II into “Demand and planning of MRTS”
  - Can include the topic metro, monorail and Trams under Mass rapid transit system in unit I.
2. **CE23553 - Pavement Analysis and Design**
  - The course title can be changed into “Rigid pavement Design and Analysis”.
3. **CE23556 - Sustainable Urban and transport development**
  - Can change the syllabus content of unit V.

#### **Vertical – VI**

1. **CE23651 - Global Navigation Satellite Systems and Applications**
  - This course can be replaced by “Remote Sensing” Course.
2. **CE23652 - Airborne and Terrestrial Laser Mapping**
  - Suggested to change the course title into “LiDAR and Laser Surveying” and to revise the syllabus content accordingly



**Minors in Building Construction:**

1. **CE23851 - Sustainable Infrastructure Development**

- Suggested to change the course title to “Construction Technology” and to revise the syllabus content accordingly.

2. **CE23853 - Quantity Estimation and Valuation**

- Suggested to change the course title to “Tenders and Contract Laws” and to revise the syllabus content accordingly.

**CE23856 - Building Construction**

- Suggested to change the course title to “Environmental Laws and Legislation” and to revise the syllabus content accordingly.

**List of Professional Elective Exemption with NPTEL Course:**

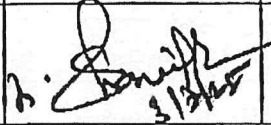
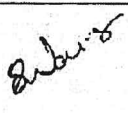
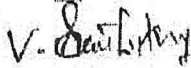
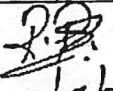
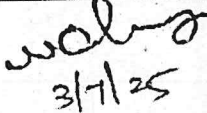
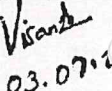
S.No	Sem	Professional Elective	NPTEL courses
1.	V	CE23251 - Modern Construction materials	Modern Construction materials
2.	V	CE23452 - Air and Noise Pollution Control Engineering	Air and Noise Pollution Control Engineering
3.	VIII	CE20552- Air Pollution and Control Engineering	Air and Noise Pollution Control Engineering

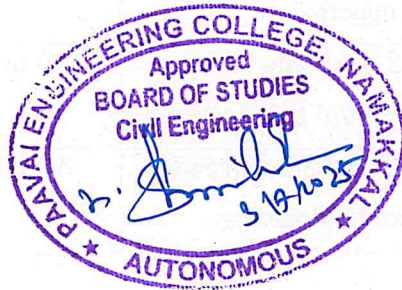
**RESOLVED AND APPROVED THE SAME.**

- BoS / CIVIL 12.6 : Discussed and got approval for B.E/B.Tech (Minor in other Specialization)
- BoS / CIVIL 12.7 : Discussed and got approval for Transfer of Credits for NPTEL Courses.
- BoS / CIVIL 12.8 : Discussed and got approval for NPTEL Course & Professional Elective Exemption.
- BoS / CIVIL 12.9 : Discussed and got approval for Assessment Weightage.



The above suggestions were given by the members and approved the Curriculum of R2023 and syllabus of 5<sup>th</sup> semester, Verticals IV, V and VI, Value added course, Minor degree Course, and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Prof.K.Sharmiladevi HoD/Civil	Dr.S.Sundari Associate Professor/ Civil Engineering, Government College of Engineering, Salem.	Dr.V.Senthilkumar Assistant Professor/Civil, NIT Karaikal.	Dr.R.Prasanna Venkatesan Associate Professor / School of Civil Engineering, VIT Vellore	Er.N.Chandrasekaran Senior Structural Consultant NAC Consultant, Tirupur.	Er.Visanth Renu, Assistant Engineer (BIM), Arcadis, Bangalore
Signature	 3/10/25			 03/09/25	 3/7/25	 03.07.25



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

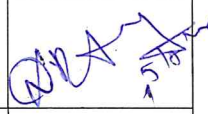

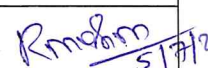
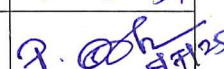
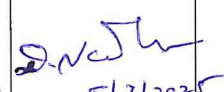

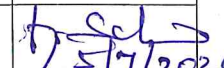
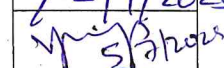

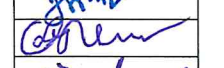
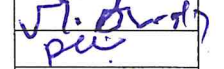
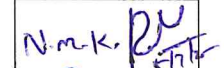
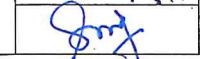


☎ 04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Minutes of 12<sup>th</sup> Board of Studies Meeting

**Date and Time: 05.07.2025, 10 a.m.**

The 12<sup>th</sup> Board of studies meeting of the Department of Computer Science and Engineering was held on 05.07.2025 (Saturday) 10 am, at MIC-GD Hall, Paavai Engineering College, Pachal. The following members were present in the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.D.Banumathy	Professor & Head/CSE	Chairman	Paavai Engineering College	
2.	Dr.D.Indumathi	ASP/CSE	University Nominee	PSG College of Technology, Coimbatore.	
3.	Dr.R.Mohan	Professor/CSE	Academic Expert	NIT, Trichy.	
4.	Dr.P.Suresh	ASP/Dept.of Database	Academic Expert	VIT, Vellore.	
5.	Mr.D.Nanthagopal	Technical Lead	Industry Expert	Bosch Global software and technology pvt limited, Coimbatore.	
6.	Mr.M.Sivakumar	Associate Engineer	Alumni	J.P Morgan chase and Co.Ltd., Bengaluru.	
7.	Dr.K.Selvi	Dean Academics	Members	Paavai Engineering College	
8.	Dr.V.Priya	Prof/CSE			
9.	Dr.M.Rameshkumar	Prof/CSE			
10.	Dr.A.Manikandan	Prof/CSE			
11.	Dr.A.Niranjilkumar	Prof/CSE			
12.	Mr.M.Siva Ganesh	ASP/CSE			
13.	Dr.P.Thiyagarajan	ASP/CSE			
14.	Mr.N.M.K.Ramalingam sakthivelan	ASP/CSE			
15.	Mrs.K.Sudhadevi	ASP/CSE			

## Agenda

- **Welcome Address**
- **Vision and mission of Institution and Department.**
- **PEOs, POs and PSOs of UG and PG Programmes.**
- **Confirmation of the minutes of the 12<sup>th</sup> Board of studies meeting held on 02.06.2025 and action taken report.**

### **Framing of Curriculum and Syllabus**

- - Feedback from Stakeholders
  - Syllabus Review Committee (SRC) – 28.06.2025
  - Department Advisory Committee (DAC) – 30.06.2025

**To consider & approve the Curriculum and Syllabus of 5<sup>th</sup> semester and Professional Electives (Vertical Subjects 4,5 and 6 ) of B.E Computer Science and Engineering Programme under Regulations 2023.**

- - Curriculum, Credits and its structure
  - Syllabus
  - Honours and Honours with specialisation
  - Minor degree
  - List of Professional Electives
  - List of Open Electives
  - List of Value added courses
  - List of Mandatory courses
- **To discuss and approve Transfer of Credits.**
- **To discuss and approve re-admitted students for additional course.**
- **To discuss and approve fast track mode for eligible students.**
- **To discuss and approve Assessment Weightage.**
- **To discuss about In-plant and industrial visit.**
- **Any other items relevant to the board of studies.**



## Minutes of the BoS Meeting

BoS / CSE 12.1 : The Chairman, Board of studies welcomed the members.

BoS / CSE 12.2 : Vision and Mission of Institution and Department were spelled out.

**APPROVED THE SAME.**

BoS / CSE 12.3 : PEOs, POs and PSOs of UG and PG Programme were described.  
The attainment levels of COs and POs for all courses were described.

**APPROVED THE SAME.**

BoS / CSE 12.4 : The minutes of the 12<sup>th</sup> Board of Studies meeting held on 05.07.2025 were communicated to the members. The comments received have been incorporated and placed for confirmation.

**APPROVED THE SAME.**

BoS / CSE 12.5 : To consider & approved the Curricula and Syllabi of 5<sup>th</sup> semester and Professional Electives (Vertical Subjects 4,5 and 6) of B.E Computer Science and Engineering Programmes under Regulations 2023.

**APPROVED THE SAME.**

BoS / CSE 12.6 : To consider and approved the syllabus of Honours and Honours with specialisation degree from the verticals 1,2,3,4,5, and 6 offered by the B.E Computer Science and Engineering programmes under Regulations 2023.

**APPROVED THE SAME.**

BoS / CSE 12.7 : To consider and approved the minor degree offered to B.E Computer Science and Engineering programmes under Regulations 2023.

**APPROVED THE SAME.**

Suggestions given by the members regarding UG syllabus:

### SEMESTER V

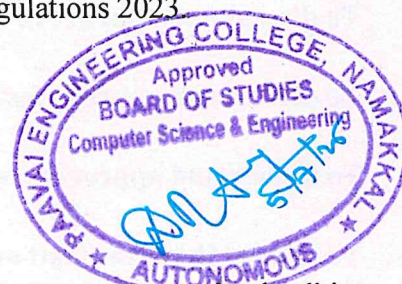
#### 1. Theory of Computation

- The committee advised updating the syllabus to incorporate the most recent textbook editions.

#### Artificial Intelligence

2

- The committee recommended expanding Unit 1 to cover various AI concepts for better foundational understanding.



## VERTICAL-IV CYBER SECURITY AND DATA PRIVACY

### 1. Security and Privacy in Cloud

- The committee suggested that prerequisites be clearly defined for each course to help ensure students are adequately prepared before enrolling.

### 2. Engineering Secure Software Systems

- The committee proposed renaming the subject to "Secure Software Systems" to better reflect current industry practices and to ensure students gain essential knowledge in software security and protection techniques.

## VERTICAL-V EMERGING TECHNOLOGIES

### 1. Human Computer Interaction

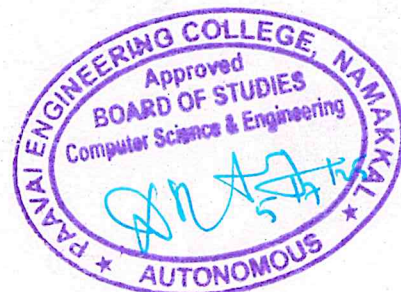
- The committee recommended replacing the subject with "Brain Computer Interaction" to keep students informed about emerging neurotechnology and brain-device communication.

### 2. Knowledge Engineering






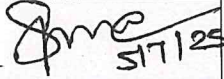
- The committee suggested revising the syllabus by introducing "Agentic AI and Prompt Engineering" to equip students with contemporary skills in designing AI-driven systems.

APPROVED THE SAME.

- BoS / CSE 12.6 : Discussed and got approval for Transfer of Credits.
- BoS / CSE 12.7 : Discussed and got approval for re-admitted students for additional course.
- BoS / CSE 12.8 : Discussed and got approval for fast track mode for eligible students.
- BoS / CSE 12.9 : Discussed and got approval for Assessment Weightage.
- BoS / CSE 12.10 : Discussed and got approval for In-plant and industrial visit.



The above suggestions were given by the members and approved the Curriculum and Syllabus of 5<sup>th</sup> semester and Verticals IV,V, VI under Regulation 2023, One Credit Courses, Value added Courses related to the specialization and any amendments in previous curriculum and syllabus.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.D.Banumathy Professor & Head/CSE	Dr.D.Indumathi ASP/CSE, PSG College of Technology, Coimbatore.	Dr.R.Mohan, ASP/CSE NIT, Trichy	Dr.P.Suresh, ASP/CSE. VIT, Vellore.	Mr.D.Nanthagopal, Technical Lead, Bosch Global Software and Technology Pvt. Limited, Coimbatore.	Mr.M.Sivakumar , Associate Engineer, J.P Morgan chase and Co. Lmt. Bengaluru.
Signature						



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

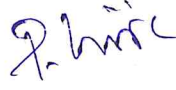
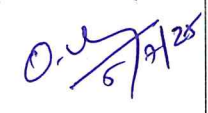
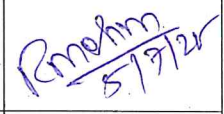

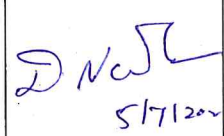

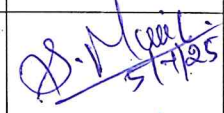
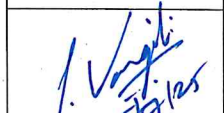
## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (AI & ML)

### Minutes of the 5<sup>th</sup>


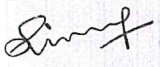
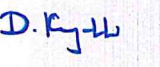
### Board of Studies Meeting

Venue: MIC GD Hall

Date and Time: 05.07.2025, 10.00 A.M.

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.P.Srinivasan	Professor & Head/ AI & ML	Chairman	Paavai Engineering College.	
2.	Dr.D.Indumathi	Associate Professor/CSE	University Nominee	PSG College of Technology, Coimbatore.	
3.	Dr.R.Mohan	Associate Professor/CSE	Academic Expert1	Dept of CSE, NIT, Trichy.	
4.	Dr.P.Suresh	ASP/ Dept of Database Systems	Academic Expert2	School of Computer Science and Engineering, VIT, Vellore.	
5.	Mr.D.Nanthagopal	Technical Lead	Industry Expert	Bosch Global software and technology pvt limited, Coimbatore.	
6.	Mr.M.Sivakumar	Associate Engineer	Alumni	J.P Morgan chase and Co. Lmt, Bengaluru.	
7.	S.Mangayarkarasi	Assistant Professor /CSE (AI & ML)	Members	Paavai Engineering College, Namakkal.	
8.	S.Vangili	Assistant Professor /AI & ML			

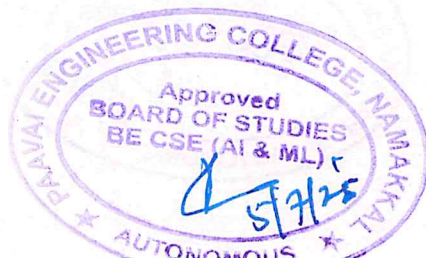


9.	Dr.M.Rameshkumar	Professor / CSE (IoT)	Members	Paavai Engineering College, Namakkal.	
10.	Dr.R.Sivakumar	Assitant Professor / CSE (IoT)	Members		
11.	D.Kanagavalli	Assitant Professor / CSE (IoT)	Members		

The 5<sup>th</sup> Board of Studies meeting of the **B.E.-CSE (Artificial Intelligence and Machine Learning)** was held on 05.07.2025 10:00 am at MIC GD Hall, Paavai Engineering College, Pachal, Namakkal. Tamil Nadu. The above members were present in the meeting.

### Agenda

➤	<b>Welcome Address</b>
➤	<b>Vision and Mission of Institution and Department.</b>
➤	<b>PEOs, POs and PSOs of the Programme.</b>
➤	<b>Confirmation of the 4<sup>th</sup> Board of Studies meeting held on 27.12.2024 and action taken report.</b>
➤	<b>To consider &amp; approve the Curriculum and Syllabi of 5<sup>th</sup> semester, Professional Elective Vertical courses (4, 5, 6), Open Electives, Minor and Honours of B.E-CSE (AI and ML) Programme under Regulations 2023.</b>  Curriculum, Credits and its structure Syllabus of semester-V List of Professional Electives Verticals List of Open Electives List of Minor Courses List of Honours Courses List of Value-added courses List of Mandatory courses Amendments
➤	<b>To discuss about B.E/B.Tech (Minor in other Specialization)</b>
➤	<b>To discuss and approve Transfer of Credits for NPTEL courses.</b>



➤	To discuss and approve Fast-Track mode for eligible students.
➤	To discuss and approve Assessment Weightage.
➤	Any other items relevant to the Board of Studies.

**Minutes of the BoS Meeting**

BoS / AI and ML 5.1	:	The Board of Studies Chairman welcomed the members.
BoS / AI and ML 5.2	:	Vision and Mission of Institution and Department were discussed.
<b>APPROVED THE SAME.</b>		
BoS / AI and ML 5.3	:	PEOs, POs and PSOs of UG Programme were discussed.
<b>APPROVED THE SAME.</b>		
BoS / AI and ML 5.4	:	The minutes of the 4 <sup>th</sup> Board of Studies meeting held on 27.12.2024 were circulated to the members, and the received comments have been incorporated and submitted for confirmation.
<b>APPROVED THE SAME.</b>		
BoS / AI and ML 5.5	:	To consider and approve the curriculum and syllabi for the 5 <sup>th</sup> Semester, including Professional Elective Vertical Courses (4, 5, and 6), Open Electives, Minor, and Honours for the B.E. CSE (AI and ML) Programme under Regulations 2023.
The syllabus was reviewed, and suggestions were given by the members. - <b>Regulations - 2023.</b>		



**PROFESSIONAL ELECTIVE VERTICALS – IV: ARTIFICIAL INTELLIGENCE IN HEALTH CARE**

1. CL23453 - COMPUTER VISION IN HEALTHCARE APPLICATION

- The committee recommended the inclusion of relevant case studies.

2. CL23456 - INTELLIGENT EMBEDDED SYSTEMS

- The members suggested the inclusion of topics on smart applications in Unit 5.

**PROFESSIONAL ELECTIVE VERTICALS – V: ALGORITHM ANALYSIS**

1. CL23554 - FUZZY LOGIC SYSTEMS

- Suggested to add 3 experiments in the syllabus.

2. CL23555 - SMART PRODUCT DEVELOPMENT

- The committee recommended the inclusion of case studies in Unit 4.

3. CL23556 - GENETIC ALGORITHMS

- The members recommended streamlining the syllabus content to improve focus and ensure better manageability.

**RESOLVED AND APPROVED THE SAME.**

**All above suggestions are resolved and approved the same.**

BoS / AI and ML 5.6

:





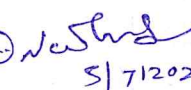
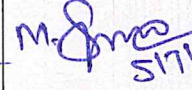
**Discussed and got approved about B.E/B.Tech (Minor in other Specialization)**



BoS / AI and ML 5.7	<p>: <b>Discussed and got approved about Transfer of Credits for NPTEL Courses.</b></p> <table border="1" data-bbox="555 327 1469 864"> <thead> <tr> <th>S.No</th> <th>NPTEL COURSE (Credits)</th> <th>PROFESSIONAL ELECTIVE COURSE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Big Data Computing (3)</td> <td>CL23152 Big Data Analytics</td> </tr> <tr> <td>2</td> <td>Business Analytics &amp; Data Mining Modelling using R (1) Business Analytics &amp; Text mining using Python (2)</td> <td>CL23155 Business Analytics</td> </tr> <tr> <td>3</td> <td>Reinforcement Learning (3)</td> <td>CL23156 Reinforcement Learning</td> </tr> </tbody> </table>	S.No	NPTEL COURSE (Credits)	PROFESSIONAL ELECTIVE COURSE	1	Big Data Computing (3)	CL23152 Big Data Analytics	2	Business Analytics & Data Mining Modelling using R (1) Business Analytics & Text mining using Python (2)	CL23155 Business Analytics	3	Reinforcement Learning (3)	CL23156 Reinforcement Learning						
S.No	NPTEL COURSE (Credits)	PROFESSIONAL ELECTIVE COURSE																	
1	Big Data Computing (3)	CL23152 Big Data Analytics																	
2	Business Analytics & Data Mining Modelling using R (1) Business Analytics & Text mining using Python (2)	CL23155 Business Analytics																	
3	Reinforcement Learning (3)	CL23156 Reinforcement Learning																	
BoS / AI and ML 5.8	<p>: <b>Discussed and got approved about Fast-Track mode for eligible students.</b></p> <table border="1" data-bbox="555 1088 1469 1435"> <thead> <tr> <th>S.No</th> <th>Register Number</th> <th>Name of the Students</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>622122112002</td> <td>AKSHITHA A</td> </tr> <tr> <td>2</td> <td>622122112003</td> <td>ANISH KLINTON P</td> </tr> <tr> <td>3</td> <td>622122112015</td> <td>DIVYA SRI M</td> </tr> <tr> <td>4</td> <td>622122112026</td> <td>JEEVANANDAN V</td> </tr> <tr> <td>5</td> <td>622122112044</td> <td>NANDHINI R</td> </tr> </tbody> </table>	S.No	Register Number	Name of the Students	1	622122112002	AKSHITHA A	2	622122112003	ANISH KLINTON P	3	622122112015	DIVYA SRI M	4	622122112026	JEEVANANDAN V	5	622122112044	NANDHINI R
S.No	Register Number	Name of the Students																	
1	622122112002	AKSHITHA A																	
2	622122112003	ANISH KLINTON P																	
3	622122112015	DIVYA SRI M																	
4	622122112026	JEEVANANDAN V																	
5	622122112044	NANDHINI R																	
BoS / AI and ML 5.9	<p>: <b>Discussed and got approved about Assessment Weightage.</b></p>																		

The above suggestions were given by the members and approved the Curriculum and Syllabi of 5<sup>th</sup> semester, Professional Elective Vertical courses (4, 5, 6), Open Electives, Minor and Honours of B.E-CSE (AI and ML) Programme under Regulations 2023, open electives, value added courses, mandatory courses and panel of examiners.



Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.P.Srinivasan HoD / B.E.CSE ( AI and ML)	Dr.D.Indumathi , Associate Professor/CSEP SG College of Technology, Coimbatore	Dr.R.Mohan Associate Professor/Dept of CSE, NIT, Trichy.	Dr.P.Suresh Associate Professor/ Dept of Database Systems, School of Computer Science and Engineering, VIT, Vellore.	Mr.D.Nanthagopal, Technical Lead, Bosch Global software and technology pvt limited, Coimbatore.	Mr.M.Sivakumar Associate Engineer J.P Morgan chase and Co. Lmt, Bengaluru.
Signature						



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### (INTERNET OF THINGS)

#### Minutes of 5<sup>th</sup> Board of Studies Meeting

Date and Time: 05.07.2025, 10.00 a.m.

The 5<sup>th</sup> Board of studies meeting of the Department of CSE (IOT) was held on 05.07.2025 (Saturday) at 10.00 am, Paavai Engineering College, Pachal, Namakkal. The following members were present in the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.M.Rameshkumar	Professor & Head/ CSE (IOT)	Chairman	Paavai Engineering College	M.R. 05/07/25
2.	Dr.D.Indumathi	ASP/CSE	University Nominee	PSG College of Technology, Coimbatore.	D. Indu 5/7/25
3.	Dr.R.Mohan	ASP/CSE	Academic Expert	NIT, Trichy.	R. Mohan 5/7/25
4.	Dr.P.Suresh	ASP/CSE	Academic Expert	VIT, Vellore.	P. Suresh 5/7/25
5.	Mr.D.Nanthagopal	Technical Lead	Industry Expert	Bosch Global software and technology pvt limited, Coimbatore.	D. Nanthagopal 5/7/2025
6.	Mr.M.Sivakumar	Associate Engineer	Alumni	J.P Morgan chase and Co.Lmt,Bengaluru.	M. Sivakumar 5/7/25
7.	Dr.K.Selvi	Dean-Academics	Members	Paavai Engineering College	K. Selvi 5/7/2025
8.	Dr.A.Vanitha	ASP			A. Vanitha 5/7/25
9.	Mr.S.Sathish	AP/CSE(IOT)			S. Sathish 5/7/25
10.	Dr.R.Sivakumar	AP/CSE(IOT)			R. Sivakumar 5/7/25
11.	Ms.D.Kanagavalli	AP/CSE(IOT)			D. Kanagavalli 5/7/25
12.	Ms.M.Magayarkarasi	AP/CSE(IOT))			M. Magayarkarasi 5/7/25



## Agenda

➤	<b>Welcome Address</b>
➤	<b>Vision and mission of Institution and Department.</b>
➤	<b>PEOs, POs and PSOs of UG Programmes.</b>
➤	<b>Confirmation of the minutes of the 4<sup>th</sup> Board of studies meeting held on 27.12.2024 and action taken report.</b>
➤	<b>Framing of Curriculum and Syllabus</b> <ul style="list-style-type: none"> <li>• Feedback from Stakeholders</li> <li>• Syllabus Review Committee (SRC) – 26.06.2025 @ 12.30 pm</li> <li>• Department Advisory Committee (DAC) – 30.06.2025 @ 11.30 am</li> </ul>
➤	<b>To consider &amp; approve the Curriculum and Syllabus of 5<sup>th</sup> semester and Professional Electives (Vertical Subjects 4,5 and 6) of B.E Computer Science and Engineering (Internet of Things) Programme under Regulations 2023 &amp; 2019.</b> <ul style="list-style-type: none"> <li>• Curriculum, Credits and its structure</li> <li>• Syllabus - List of Professional Electives</li> <li>• List of One Credit Courses</li> <li>• List of Value added courses</li> <li>• List of Mandatory courses</li> </ul>
➤	<b>To discuss and approve Transfer of Credits.</b>
➤	<b>To discuss and approve fast track mode for eligible students.</b>
➤	<b>To discuss and approve Assessment Weightage.</b>
➤	<b>Any other items relevant to the board of studies.</b>

### Minutes of the BoS Meeting

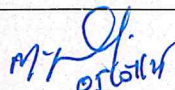
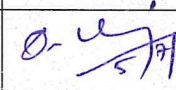
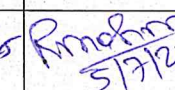
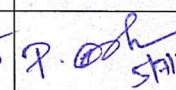
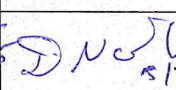
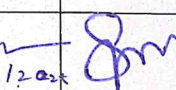
<b>BoS / CSE (IOT) 5.0</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / CSE (IOT) 5.1</b>	:	Vision and mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / CSE(IOT) 5.2</b>	:	PEOs, POs and PSOs of UG Programme were described.
<b>APPROVED THE SAME.</b>		



<b>BoS / CSE(IOT) 5.3</b>	:	The minutes of the 4 <sup>th</sup> Board of Studies meeting held on 27.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation.
<b>APPROVED THE SAME.</b>		
<b>BoS / CSE(IOT) 5.4</b>	:	To consider & approved the Curriculum and Syllabus of 5 <sup>th</sup> semester and Professional Electives (Vertical Subjects 4,5 and 6) of B.E Computer Science and Engineering (Internet of Things) Programmes under Regulations 2023.
<b>Suggestions given by the members regarding UG syllabus:</b>		
<b><u>SEMESTER-V</u></b>		
1.		Computer Networks
		<ul style="list-style-type: none"> <li>• Add Layered architecture in Unit-I</li> <li>• Include Physical Layer in Unit-V</li> </ul>
<b><u>VERTICAL-V DESIGN AND ARCHITECTURE</u></b>		
1.		Service Oriented Architecture
		<ul style="list-style-type: none"> <li>• Suggested to include Microservices and Mesh Service Architecture in Unit V</li> </ul>
2.		Cloud and Fog Computing
		<ul style="list-style-type: none"> <li>• Suggested to revise the syllabus to incorporate cloud computing concepts across all units.</li> </ul>
<b><u>VERTICAL-VI EMERGING TECHNOLOGIES</u></b>		
1.		Soft Computing
		<ul style="list-style-type: none"> <li>• Suggested to modify the subject as “Fog and Edge Computing”.</li> </ul>
2.		AI and ML Techniques
		<ul style="list-style-type: none"> <li>• Suggested to rename the title and revise the syllabus to focus specifically on Machine Learning Techniques.</li> </ul>
<b>APPROVED THE SAME.</b>		
<b>BoS / CSE(IOT) 5.5</b>		<b>Discussed and got approval about B.E/B.Tech (Minor in other Specialization)</b>
<b>BoS / CSE(IOT) 5.6</b>	:	<b>Discussed and got approval for Transfer of Credits for NPTEL Courses.</b>
<b>BoS / CSE(IOT) 5.7</b>	:	<b>Discussed and got approval for fast track mode for eligible students.</b>
<b>BoS / CSE(IOT) 5.8</b>	:	<b>Discussed and got approval for Assessment Weightage.</b>
<b>BoS / CSE(IOT) 5.9</b>		<b>Discussed and got approval for Readmission (622123113019-Jayasurya A) in 3<sup>rd</sup> Sem under R2023</b>



The above suggestions were given by the members and approved the Curriculum and Syllabus of 5<sup>th</sup> semester and Professional Electives (Vertical Subjects 4, 5 and 6) of B.E Computer Science and Engineering (Internet of Things) Programmes under Regulations 2023, one credit courses, open electives, verticals, value added courses, amendment, mandatory courses and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.M.Ramesh kumar, Professor and Head/ CSE (IOT)	Dr.D.Indumathi ASP/CSE, PSG College of Technology, Coimbatore.	Dr.R.Mohan, ASP/CSE NIT, Trichy	Dr.P.Suresh, ASP/CSE. VIT, Vellore.	Mr.D.Nanthagopal, Technical Lead, Bosch Global Software and Technology Pvt. Limited, Coimbatore.	Mr.M.Sivakumar, Associate Engineer, J.P Morgan chase and Co. Lmt. Bengaluru.
Signature						



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

☎ 04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

## DEPARTMENT OF CYBER SECURITY

Minutes of 7<sup>th</sup> Board of Studies Meeting

VENUE: Placement GD Hall

Date & Time: 05.07.2025 & 10.00 AM

The following members are present in 7<sup>th</sup> Board of Studies meeting

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature with date
1	Dr. P.Muthusamy	Professor	Chairman	Paavai Engineering College	<i>P. Muthusamy</i> 5/7/25
2	Dr.K.Sathiyapriya	Associate Professor	University Nominee	Department of Computer Science and Engineering, PSG College of Technology, Coimbatore	<i>K. Sathiyapriya</i> 5/7/25
3	Dr. N.Jaisankar	Professor (Higher Academic Grade)	Academic Expert	Department of Computer Science and Engineering, Vellore Institute of Technology, Vellore	<i>N. Jaisankar</i>
4	Dr.M.B Mukesh Krishnan	Professor	Academic Expert	Department of Networking and Communication, SRM Institute of Science and Technology, Katankulathur, Chennai	<i>M. B. Mukesh Krishnan</i> 5/7/25
5	Mr.B.Sivakumar	Senior Specialist Cyber Security	Industry Expert	LTI Mindtree Private Limited, Chennai	<i>B. Sivakumar</i>
6	Mr.S.B Hariharan	Graduate Engineer Trainee Risk & Compliance	Alumni	HCL Tech, IT Park, Sholingalur, Chennai	<i>S. B. Hariharan</i> 5/7/25
7	Dr.P.Purusothaman	ASP	Members	Paavai Engineering College	<i>P. Purusothaman</i>
8	Mrs.J.Velumani	ASP			<i>J. Velumani</i>
9	Mr.R.Loganathan	ASP			<i>R. Loganathan</i>
10	Mr.P.Sathishkumar	AP			<i>P. Sathishkumar</i>
11	Mrs.S.Ramya	AP			<i>S. Ramya</i>
12	Mrs.S.Chandrakala	AP			<i>S. Chandrakala</i> 5/7/25

## Agenda

➤	Welcome Address.
➤	Vision and Mission of Institution and Department.
➤	PEOs, POs and PSOs of UG Programme.
➤	Confirmation of the minutes of the 6 <sup>th</sup> Board of Studies meeting held on 27.12.2024 and action taken report.
➤	<p>To consider and approve the list of courses and syllabus for the 5<sup>th</sup> semester, and Verticals I to VI of the B.E Cyber Security Programme under Regulations 2023.</p> <ul style="list-style-type: none"><li>• Curriculum, Credits and its structure</li><li>• List of V semester courses and syllabus</li><li>• List of Professional Electives and syllabus</li><li>• Vertical I, II, III, IV, V and VI courses and syllabus</li><li>• List of Open Electives</li><li>• List of One Credit Courses</li><li>• List of Value added courses</li><li>• List of Mandatory courses</li></ul>
➤	To consider and approve the list of courses and syllabus for B.E/B.Tech Minors and Honors.
➤	To discuss B.E/B.Tech Minor Degree.
➤	To discuss and approve Transfer of Credits.
➤	To discuss and approve re-admitted students for additional course.
➤	To discuss and approve fast track mode for eligible students.
➤	To discuss and approve the Assessment Weightage.
➤	To discuss and approve the exemption of courses related to NPTEL, Value- Added Courses, One Credit courses and Equivalent courses.
➤	Any other points relevant to the Board of Studies.



## Minutes of the BOS Meeting

BoS / Cyber Security 7.1	:	The Board of Studies Chairman welcomed the members.
BoS / Cyber Security 7.2	:	Vision and Mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
BoS / Cyber Security 7.3	:	PEOs, POs and PSOs of UG Programme were described.
<b>APPROVED THE SAME.</b>		
BoS / Cyber Security 7.4	:	The minutes of the 6 <sup>th</sup> Board of Studies meeting held on 27.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.
<b>APPROVED THE SAME.</b>		
BoS / Cyber Security 7.5	:	To consider and approve the curriculum, syllabus and course outcomes of 5 <sup>th</sup> semester; Verticals I to VI; Minor courses and Open Elective courses for B.E Cyber Security Programme (CBCS), to be offered under Regulations 2023 with effect from the academic year 2025- 2026 onwards.
<b>Suggestions given by the members regarding syllabus:</b>		
<ul style="list-style-type: none"> <li>• In all the courses, the syllabus contents should not be overlapped or repeated.</li> <li>• For all courses, textbook details such as authors and publishers should be mentioned clearly.</li> </ul>		
<b><u>Semester –V</u></b>		
<ul style="list-style-type: none"> <li>• Include any security and privacy related course as Professional Core course in 5th semester.</li> <li>• CY23504/Digital Forensics course can be renamed as Digital Forensics and Incident Response.</li> <li>• Include Testing and Secure Coding concepts in CY23505/Secure Software Engineering Course.</li> </ul>		
<b><u>Semester –VI</u></b>		
<ul style="list-style-type: none"> <li>• Include Information Assurance and Security course in 6<sup>th</sup> semester.</li> </ul>		
<b><u>Semester –VII</u></b>		
<ul style="list-style-type: none"> <li>• Malware Analysis could be a separate course in 7th semester, instead of Malware Analysis and Incident Response.</li> </ul>		



<b><u>Verticals</u></b>
<b>Vertical I</b>
<ul style="list-style-type: none"> <li>• Frontend and Backend Frameworks can be titled as Full Stack Development.</li> </ul>
<b>Vertical II</b>
<ul style="list-style-type: none"> <li>• Include Data mining topics in Data Warehousing and Data Mining course.</li> </ul>
<b>Vertical III</b>
<ul style="list-style-type: none"> <li>• Rename the course IOT and Embedded Security as Security in Embedded Systems.</li> <li>• Rename the course titled MANET to MANET and Sensor Security.</li> <li>• Quantum Cryptography course could be added.</li> </ul>
<b>Vertical IV</b>
<ul style="list-style-type: none"> <li>• DevOps course can be replaced with DevSecOps.</li> </ul>
<b>Vertical V</b>
<ul style="list-style-type: none"> <li>• Rename the course Privacy Preserving in Data Mining as Privacy Preservation in Data Mining.</li> </ul>
<b>Vertical VI</b>
<ul style="list-style-type: none"> <li>• Recommended to include Security Audit and Risk Assessment course.</li> </ul>
<b>General Suggestions</b>
<ul style="list-style-type: none"> <li>• Incorporate latest trend based courses such as Digital Twins, Advanced Cryptography, Data Centre Protection and Prompt Engineering.</li> <li>• Consider the latest editions of textbooks and reference books to ensure up-to-date content.</li> <li>• Ensure that the entire syllabus is covered within a single textbook or limit it to a maximum of two textbooks.</li> </ul>
<b>RESOLVED AND APPROVED THE SAME.</b>

The above suggestions were given by the members who approved the curriculum and syllabus for the 5th semester, Verticals I to VI, and Minor Courses for the UG programme under Regulation 2023, for students admitted in the academic year 2023-2024.

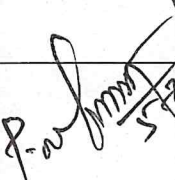
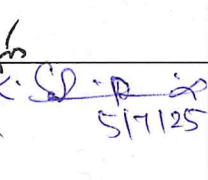
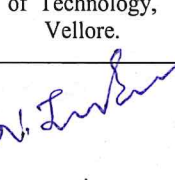
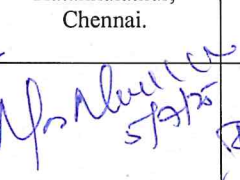
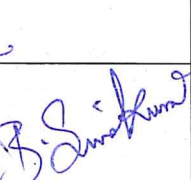
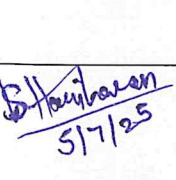


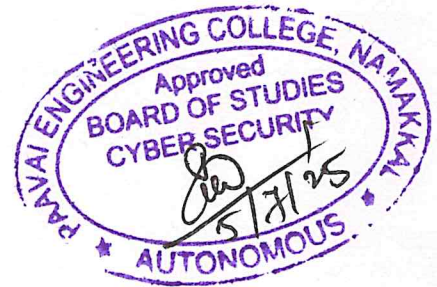
<b>BoS / Cyber Security 7.6</b>	:	Discussed and got approval for Transfer of Credits for NPTEL Courses.
---------------------------------	---	---

Our Third year students 20 members have completed the Cloud Computing course from NPTEL (Jul - Oct 2024 and Jan - Apr 2025). Instead of this, we need a course exemption from Professional Elective III in the VII<sup>th</sup> semester of R2019.

S.No	Register No	Name of the Student
1	622122111007	AMALRAJ.M.O
2	622122111021	BARANINISHANTH.P
3	622122111047	GURUKISHORE.T
4	622122111051	HEMA DINESH.V
5	622122111055	KALIRAJ.M
6	622122111056	KARTHIK SANKKAR.V.B
7	622122111062	KODAVALI DAVID.RAJ
8	622122111064	KORRAPATI TEJA SWAROOP
9	622122111069	LOKESH.S
10	622122111073	MANOJ KUMAR.S
11	622122111076	MOHAN.M
12	622122111081	NAVEENKUMAR.S
13	622122111085	POOJA.A.M
14	622122111087	PRITHIKA.R
15	622122111090	ROHITH.P
16	622122111093	SAMUEL.R
17	622122111097	SETHU RAJA.R
18	622122111098	SHALINI.N
19	622122111100	SIDDHARTHAN.N
20	622122111112	UVARAJKUMAR.S



Position in the Committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
<b>Name &amp; Designation</b>	Dr.P.Muthusamy Professor & Head Cyber Security	Dr.K.Sathiyapriya, Associate Professor, Department of Computer Science and Engineering, PSG College of Technology, Coimbatore.	Dr.N.Jaisankar, Professor (Higher Academic Grade), Department of Computer Science and Engineering, Vellore Institute of Technology, Vellore.	Dr.M.B Mukesh Krishnan, Professor, Department of Networking and Communication, SRM Institute of Science and Technology, Katankulathur, Chennai.	Mr.B.Sivakumar, Senior Specialist Cyber Security, LTI Mindtree Private Limited, Chennai.	Mr.S.B Hariharan, Graduate Engineer Trainee, Risk & Compliance, HCL Tech, IT Park, Sholingalur, Chennai.
<b>Signature</b>	 5/7/25	 5/7/25	 5/7/25	 5/7/25	 5/7/25	 5/7/25



**PAAVAI ENGINEERING COLLEGE**

**(AUTONGMOUS)**





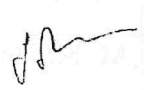
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Minutes of 12<sup>th</sup> Board of Studies Meeting**

**Venue: Placement Hall**

**Date and Time: 21.06.2025, 10.00 am**

The 12<sup>th</sup> Board of studies meeting of the Department of Electronics and Communication Engineering was held on 21.06.2025 (Saturday), at 10.00 am in Placement Hall, Temple Tower Building, Paavai Engineering College, Pachal. The following members were present in the meeting

1.	<b>Dr.R.Mohana Priya</b>	Associate Professor / ECE	Chairman	Paavai Engineering College	
2.	<b>Dr.T.Jayasree</b>	Assistant Professor / ECE	University Nominee	Centre for Medical Electronics, CEG Campus, Anna University, Chennai	
3.	<b>Dr. R. Pandeeswari</b>	Professor / ECE	Academic Expert	NIT, Trichy	
4.	<b>Dr. Christhu Raj M R</b>	Associate Professor / Head	Academic Expert	Directorate of Learning and Development, SRM Institute of Science and Technology, Chennai.	
5.	<b>Mr.S. Robertmathan</b>	Program Manager	Industry Expert	L & T Technology Services Kolapakkam Chennai	

6.	Mr.S.M.Chandru	Firmware developer	Alumni	Intel Cerium systems Tech Mahindra Bangalore	S.M.C.
✓ 7.	Dr. T.Aruna	Professor /ECE	Members	Paavai Engineering College	T. Aruna
8.	Dr.S.Vijayakumar	Professor /ECE			21/9/20
9.	Dr.T.Loganayagi	Professor /ECE			21/6/20
✓ 10.	Dr.N.Angayarkanni	Professor /ECE			N. Angayarkanni
11.	Dr.A.Parimala Gandhi	/ECE	Members	Paavai Engineering College	A. Parimala Gandhi
12.	Dr.M.Shantha Kumar ✓	ASP/ECE			M. Shantha Kumar
13.	Dr.M.Udhayavani	ASP/ECE			M. Udhayavani
14. ✓	Mrs.A.Samundeeswari	ASP/ECE			A. Samundeeswari
15.	Mrs.E.Sangeetha	AP/ECE			E. Sangeetha
16.	Mrs.C.Vanaja	AP/ECE			C. Vanaja
17.	Mr.S.Vijayakumar	AP/ECE			S. Vijayakumar
18. ✓	Dr.R.Pushpavalli	ASP/ECE			R. Pushpavalli
19. ✓	Mr.R.Logarasu	AP Sr.G/ECE			R. Logarasu
20.	Mr.S.Loganathan	AP/ECE			S. Loganathan
21.	Mr.S.Satheesh Kumar ✓	AP/ECE			S. Satheesh Kumar
22. ✓	Mr.D.Satheesh Kumar	AP/ECE			D. Satheesh Kumar
23.	Mrs.S.Usha	AP/ECE			S. Usha

24.	Mr.S.Vijay Murugan	AP/ECE			<del>Handwritten signature</del> 21/6/25
25.	Mr.A.Saravanan	AP/ECE			<del>Handwritten signature</del>
26.	Mrs.R.Bhuvaneshwari	AP/ECE			<del>R.B.H.</del>
27.	Mrs. N.Gangarani	AP/ECE			<del>Handwritten signature</del> 21/6/25
28.	Mrs.S.Vijaya	AP/ECE			<del>Handwritten signature</del>
29.	Mrs.A.Sujitha	AP/ECE			<del>Handwritten signature</del>
✓ 30.	Mr.K.Venkatachalam	AP/ECE			Handwritten signature
✓ 31.	Mrs.R.Mythily	AP/ECE			Handwritten signature
32.	Mrs.A.Aarthi	AP/ECE			Handwritten signature

### Agenda

- Welcome Address
- Vision and mission of Institution and Department.
- PEOs, POs and PSOs of UG and PG Programme.
- Confirmation of the minutes of the 10<sup>th</sup> Board of studies meeting held on 08.05.2024 and action taken report.
- ✓ To discuss and approve
  - ✓ Curriculum and Syllabus of 5<sup>th</sup> Semester for B.E. ECE under Regulations 2023
  - ✓ Curriculum and Syllabus of Professional Electives (Verticals 4, 5 and 6) for B.E. ECE under Regulations 2023.
  - ✓ Curriculum and Syllabus of Minor Degree (Offered to other department Students) under Regulations 2023.
- To discuss and approve
  - ✓ Honours
  - ✓ Honours with Specialization
- Examination Patterns and Additional Credits earned
- Fast Track details
- Internal assessment weightage
- Any other items proposed as agenda, relevant to the board of studies.

### Minutes of the BoS Meeting

BoS / ECE 12.1	:	The Board of studies Chairman welcomed the members.
BoS / ECE 12.2	:	Vision and mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
BoS / ECE 12.3	:	PEOs, POs and PSOs of UG and PG Programme were described.
<b>APPROVED THE SAME.</b>		
BoS / ECE 12.4	:	The minutes of the 12 <sup>th</sup> Board of Studies meeting held on 21.06.2025 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.

**APPROVED THE SAME.**

<b>BoS / ECE 12.5</b>	:	To consider & approve the Curriculum and Syllabus of 5 <sup>th</sup> Semester for B.E Electronics and Communication Engineering Programme (CBCS) to be offered under Regulations 2023.
<b>BoS / ECE 12.6</b>	:	To consider & approve the Curriculum, Syllabus and Course Outcomes of professional electives (Verticals 4, 5 and 6) for B.E Electronics and Communication Engineering Programme (CBCS) to be offered under Regulations 2023.

**Suggestions given by the members regarding 5<sup>th</sup> Semester and professional electives (Verticals 4, 5 and 6) syllabus:**

**1. EC23502 - RF TRANSMISSION LINES**

**In Unit 2, Topic titled Planar Transmission Lines is included.**

**2. EC23503 - CONTROL SYSTEMS**

**Case Studies are included in Unit 5.**

**3. EC23504 - COMPUTER COMMUNICATION NETWORKS**

**Topic titled Proxy servers is included in Unit 5.**

**4. EC23505 - COMMUNICATION SYSTEMS LABORATORY**

**Only titles of the experiments can be mentioned.**

**5. EC23506 - COMMUNICATION NETWORKS LABORATORY**

**Experiments can be merged and only titles can be mentioned**

**6. SMART ANTENNAS & RF TRANSCEIVERS**

**Syllabus could be reframed**

**7. EMI/EMC IN SYSTEM DESIGN**

**In Unit 4, Contents must be reframed.**

**8. DATA ANALYTICS FOR IOT**

**Syllabus could be reframed**

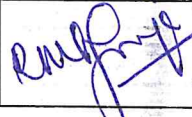
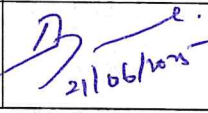
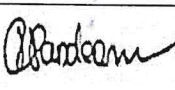
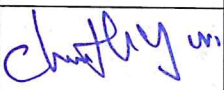
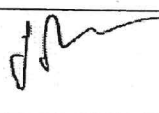

**9. IOT BASED SYSTEM DESIGN**

**Case Studies are included in Unit 5.**

**10. MEDICAL ELECTRONICS**

<b>Contents are rearranged.</b>		
<b>11.</b>	<b>MEDICAL IMAGING SYSTEMS &amp; HUMAN ASSIST DEVICES</b>	
<b>Syllabus could be reframed</b>		
<b>12</b>	<b>BIO TELEMETRY</b>	
<b>Biotelemetry can be replaced Biomedical Equipment/ Artificial Intelligence in Healthcare</b>		
<b>RESOLVED AND APPROVED THE SAME.</b>		
<b>BoS / ECE 12.7</b>	<b>:</b>	<b>Discussed about B.E/B.Tech (Minor) in other Specialization)</b>
<b>Suggestions are given to reframe the Courses</b>		
<b>BoS / ECE 12.8</b>	<b>:</b>	<b>Discussed about Honours and Honours with Specialization</b>
<b>Regulations for the Honours and Honours with Specialization were explained</b>		
<b>APPROVED THE SAME.</b>		
<b>BoS / ECE 12.9</b>	<b>:</b>	<b>Discussed about NPTEL Courses and Professional Electives - Additional Credits earned</b>
<b>Regulations for the NPTEL Courses and Professional Electives - exemption of courses and grading were explained.</b>		
<b>APPROVED THE SAME.</b>		
<b>BoS / ECE 12.10</b>	<b>:</b>	<b>Discussed about fast track mode students.</b>
<b>APPROVED THE SAME.</b>		
<b>BoS / ECE 12.11</b>	<b>:</b>	<b>Discussed about Readmission students.</b>
<b>P.Sakthivel, Readmitted in the III semester in the Academic Year (2025-2026)</b>		
<b>APPROVED THE SAME.</b>		
<b>BoS / ECE 12.12</b>	<b>:</b>	<b>Discussed about Assessment Weightage.</b>
<b>APPROVED THE SAME.</b>		

The above suggestions were given by the members and approved the curriculum and Syllabus of V Semester and professional elective syllabi Verticals 4, 5 and 6 of BE (ECE) under Regulations 2023 for the students admitted in the year 2025 - 2026, Minor degree, mandatory courses and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.R.Mohana Priya, Associate Professor & Head, ECE, PEC	Dr.T.Jayasree, AP, Centre for Medical Electronics, AU, Chennai	Dr. R. Pandeewari, Professor, ECE, NIT, Trichy.	Dr. Christhu Raj M R, AsP & Head, DLD, SRM Institute of Science and Technology, Chennai.	Mr. S. Robert mathan, Program Manager L & T Technology Services, Chennai.	Mr. S.M.Chandru Senior Engineer Tech Mahindra Bengaluru
Signature		 21/06/2025				

# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

Date: 05.07.2025









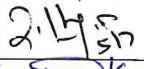
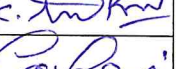
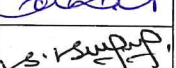
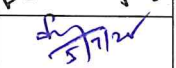
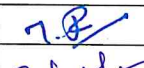
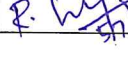

## Minutes of the Board of Studies Meeting

Department of Electrical and Electronics Engineering

Date and Time: 05.07.2025, 11.00 AM

Venue: Department of Electrical and Electronics Engineering

### Members Present

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature with Date
1.	Dr.G.Balaji	HoD & Professor	Chairman	Paavai Engineering College	 5/7/25
2.	Dr.K.Selvi	Prof./EEE	University Nominee	Thiagarajar College of Engineering, Madurai	 5/7/2025
3.	Dr.M.Jagabar Sathik	ASP./EEE	Academic Expert 1	SRM Institute of Science and Technology, Chennai	
4.	Dr.V.Arunachalam	ASP./MNE	Academic Expert 2	Department of Micro & Nano Electronics, VIT University, Vellore	
5.	Mr.V.Subramanian	DGM - Training	Industry Expert	L&T Electrical & Automation, Ooty	
6.	Ms.P.Rajarajeshwari	Assistant Manager	Alumni	Schneider Electric Jigani, Karnataka.	
7.	Dr.K.Selvi	Dean Academics	Special Invitee	Paavai Engineering College	
8.	Dr.B.Murali Babu	Professor	Member	Paavai Engineering College	
9.	Dr.A.Rathinam	Professor /EEE			
10.	Dr.C.Arulkumar	ASP/EEE			
11.	Mrs.G.Umamaheswari	ASP/EEE			
12.	Dr.S.Suganya	AP/EEE			
13.	Dr.S.Ramachandaran	AP/EEE			
14.	Mr.M.Raja	AP/EEE			
15.	Mr.R.Satheeshkumar	AP/EEE			

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

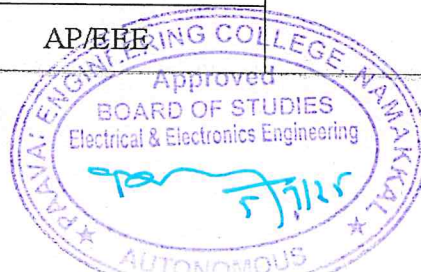
**Minutes of 12<sup>th</sup> Board of Studies Meeting**

Venue: Hybrid Mode

Date and Time: 05.07.2025, 11.00 a.m.

The 12<sup>th</sup> Board of studies meeting of the Department of Electrical and Electronics Engineering was held on 05.07.2025 (Saturday), at 11.00 am through hybrid mode, Paavai Engineering College, Pachal. The following members were present in the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.G.Balaji	HoD & Professor	Chairman	Paavai Engineering College
2.	Dr.K.Selvi	Prof./EEE	University Nominee	Thiagarajar College of Engineering, Madurai
3.	Dr.M.Jagabar Sathik	ASP./EEE	Academic Expert 1	SRM Institute of Science and Technology, Chennai
4.	Dr.V.Arunachalam	ASP/MNE	Academic Expert 2	Department of Micro & Nano Electronics, VIT University, Vellore
5.	Mr.V.Subramanian	DGM - Training	Industry Expert	L&T Switchgear and Training Centre, Conoor
6.	Ms.P.Rajarajeshwari,	Senior Manager	Alumni	Sr Manager, Global Supply Chain, Schneider Electric, Bengaluru
7.	Dr.K.Selvi	Dean Academics	Special Invitee	Paavai Engineering College
8.	Dr.B.Murali Babu	Professor	BoS Members	Paavai Engineering College
9.	Dr.A.Rathinam	Professor /EEE		Paavai Engineering College
10.	Dr.C.Arulkumar	ASP/EEE		Paavai Engineering College
11.	Mrs.G.Umamaheswari	ASP/EEE		Paavai Engineering College
12.	Dr.S.Suganya	AP/EEE		Paavai Engineering College
13.	Dr.S.Ramachandaran	AP/EEE		Paavai Engineering College
14.	Mr.M.Raja	AP/EEE		Paavai Engineering College
15.	Mr.R.Satheeshkumar	AP/EEE		Paavai Engineering College



## Agenda

➤	Welcome Address
➤	Vision and mission of Institution and Department.
➤	PEOs, POs and PSOs of UG and PG Programme.
➤	Confirmation of the minutes of the 11 <sup>th</sup> Board of studies meeting held on 30.12.2024 and action taken report.
➤	<b>To consider &amp; approve the Curriculum and Syllabus of Professional Elective verticals to B.E Electrical and Electronics Engineering Programme under Regulations 2023.</b> <ul style="list-style-type: none"><li>• Curriculum, Credits and its structure</li><li>• Syllabus</li><li>• 5th semester B.E., EEE under Regulations 2023.</li><li>• Vertical IV, V, VI B.E., EEE under Regulations 2023.</li><li>• Minor degree (Offered to other department Students) under Regulations 2023.</li><li>• Honours.</li><li>• Honours with Specialization.</li></ul>
➤	<b>To discuss about B.E/B.Tech (Minor in other Specialization)</b>
➤	<b>To discuss and approve Assessment Weightage.</b>
➤	<b>To discuss and approve the value added courses(optional).</b>
➤	<b>To discuss and approve flexibility to add or drop courses.</b>
➤	<b>To discuss and approve re-admitted students for additional course.</b>
➤	<b>To discuss and approve fast track mode for eligible students.</b>
➤	<b>To discuss and approve target for the CO-PO-PSO attainment.</b>
➤	<b>Examination patterns and additional credits earned.</b>
➤	<b>Any other items proposed as agenda, relevant to the board of studies.</b>




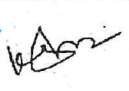




## Minutes of the BoS Meeting

<b>BoS / EEE 12.1</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / EEE 12.2</b>	:	Vision and mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / EEE 12.3</b>	:	PEOs, POs and PSOs of UG and PG Programme were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / EEE 12.4</b>	:	The minutes of the 11 <sup>th</sup> Board of Studies meeting held on 30.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation.
<b>APPROVED THE SAME.</b>		
<b>BoS / EEE 12.5</b>	:	<b>To consider &amp; approve the Curriculum, Curriculum Structure, Syllabi &amp; Course Outcomes of Professional Elective Verticals for B.E Electrical and Electronics Engineering Programme (CBCS) to be offered under Regulations 2023 for the students admitted in the Academic Year 2023-2024 onwards.</b>
<b>Suggestions given by the members regarding UG syllabus:</b>		
<b><u>Semester V</u></b>		
<b>1.</b>		<b><u>EE23505 : Control and Instrumentation Laboratory</u></b>
		<ul style="list-style-type: none"> <li>• Include MATLAB/Python tools for simulation experiments</li> </ul>
<b><u>Vertical V – Embedded Systems</u></b>		
<b>1.</b>		<b><u>EE23557 : Embedded Control For Electric Drives</u></b>
		<ul style="list-style-type: none"> <li>• Include FPGA concepts in the syllabus.</li> </ul>
<b><u>Vertical VI – Control and Automation</u></b>		
<b>1.</b>		<b><u>EE23652 : Process Control and Instrumentation</u></b>
		<ul style="list-style-type: none"> <li>• Include gas analyzers and pollution monitoring instruments in unit V.</li> </ul>
<b><u>Minor Degree – IoT and Automation</u></b>		
<b>1.</b>		<b><u>EE23852 : Artificial Intelligence</u></b>
		<ul style="list-style-type: none"> <li>• Include Electric and Hybrid Vehicle course in minor degree instead of Artificial Intelligence</li> </ul>
<b>2.</b>		<b><u>EE23857 : Cyber Physical Systems Applications</u></b>
		<ul style="list-style-type: none"> <li>• Include Switched Mode Power Supply course in minor degree instead of Cyber Physical Systems Applications</li> </ul>



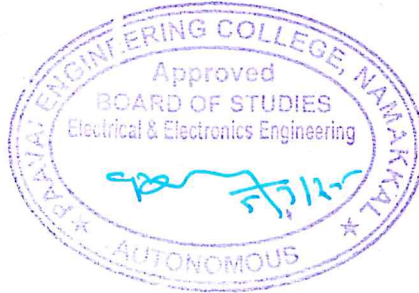
<b>Vertical II – Converters and Drives</b>	
<b>1.</b>	<b><u>EE23257 : Power Electronics for Renewable Energy Systems</u></b>
	<ul style="list-style-type: none"> <li>• Include Special Electrical Machines and Drives instead of Power Electronics for Renewable Energy Systems Course which was approved in 11<sup>th</sup> BoS.</li> </ul>
<b>RESOLVED AND APPROVED THE SAME.</b>	
<b>BoS / EEE 12.6</b>	<b>: Discussed and got approved about B.E/B.Tech (Minor in other Specialization).</b>
<b>BoS / EEE 12.7</b>	<b>: Discussed and got approved about Assessment Weightage.</b>
<b>BoS / EEE 12.8</b>	<b>: Discussed and got approved about B.E/B.Tech (Minor in other Specialization)</b>
<b>BoS / EEE 12.9</b>	<b>: Discussed and got approved about the value added courses (optional).</b>
<b>BoS / EEE 12.10</b>	<b>: Discussed and got approved about flexibility to add or drop courses.</b>
<b>BoS / EEE 12.11</b>	<b>: Discussed and got approved about re-admitted students for additional course.</b>
<b>BoS / EEE 12.12</b>	<b>: Discussed and got approved for target level to CO-PO-PSO attainment.</b>
<b>BoS / EEE 12.13</b>	<b>: Discussed and got approved about fast track mode for eligible students.</b>
<b>BoS / EEE 12.14</b>	<b>: Discussed and got approved about Examination patterns and additional credits earned.</b>

The above suggestions were given by the members and approved the curriculum and syllabus for 5<sup>th</sup> semester, professional elective verticals IV, V, VI and change of course in vertical II, syllabi for UG under Regulations 2023 for the students admitted in the year 2023-2024, minor degree, value added courses, mandatory courses and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert	Alumni
Name & Designation	Dr.G.Balaji Professor & Head, EEE	Dr.K.Selvi, Prof/EEE, Thiagarajar College of Engineering, Madurai.	Dr.M.Jagabar Sathik, ASP/EEE SRM Institute of Science and Technology, Chennai.	Dr.V.Arunachalam, ASP/MNE Department of Micro & Nano Electronics, VIT University, Vellore.	Mr.V.Subramanian, DGM-Training Larsen & Toubro, Switchgear Training Centre, Coonoor.	Ms.P.Rajarajeshwari, Sr Manager, Global Supply Chain, Schneider Electric, Bengaluru
Signature						



S.No	BoS Members	Designation	Signature
1.	Dr.B.Murali Babu	Professor	<i>[Handwritten Signature]</i>
2.	Dr.A.Rathinam	Professor /EEE	<i>[Handwritten Signature]</i>
3.	Dr.C.Arulkumar	ASP/EEE	<i>[Handwritten Signature]</i>
4.	Mrs.G.Umamaheswari	ASP/EEE	<i>[Handwritten Signature]</i>
5.	Dr.S.Suganya	AP/EEE	<i>[Handwritten Signature]</i>
6.	Dr.S.Ramachandaran	AP/EEE	<i>[Handwritten Signature]</i>
7.	Mr.M.Raja	AP/EEE	<i>[Handwritten Signature]</i>
8.	Mr.R.Satheeshkumar	AP/EEE	<i>[Handwritten Signature]</i>



**PAAVAI ENGINEERING COLLEGE (Autonomous)  
DEPARTMENT OF MECHANICAL ENGINEERING**

**Minutes of 12<sup>th</sup> Board of Studies Meeting**

**Date and Time: 08.07.2025, 11.00 AM – Online Mode**

The 12<sup>th</sup> Board of Studies meeting of the Department of Mechanical Engineering and Safety and Fire Engineering was held on 08.07.2025 (Tuesday), at 11.00 am through Online Mode, at Paavai Engineering College. The following members were present for the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.A.P.Sivasubramaniam	HoD & Prof / Mech	Chairman	Paavai Engineering College.
2.	Dr.K.Kannan	Prof/ Mech	University Nominee	PSG College of Technology, Coimbatore.
3.	Dr.R.Jeyapaul	Prof/ Production Engg	Academic Expert 1	National Institute of Technology, Trichy.
4.	Dr.G.Sundaramali	ASP/ Mech	Academic Expert 2	School of Mechanical Engineering, VIT Vellore Campus, Vellore.
5.	Mr.A.Maheshkumar	Head Automation	Industry Expert	Brakes India Private Ltd, Chennai.
6.	Mr.K.Sakthivel	Assistant Manager	Alumni	Mutiara Thermal Power Plant, Tuticorin.
7.	Dr.M.Premkumar	Principal	Members	Paavai Engineering College
8.	Dr.K.K.Ramasamy	Prof/ Mech		
9.	Dr.K.Sundara Murthy	Prof/ Mech		
10.	Dr.M.Makesh	Prof/ Mech		
11.	Dr.S.Maniraj	ASP/ Mech		
12.	Dr.S.T.Kumaravel	ASP/ Mech		
13.	Dr.V.Senthilkannan	ASP/ Mech		
14.	Dr.M.S.Vijayanand	ASP/ Mech		
15.	Dr.M.Selvaraj	ASP/ Mech		
16.	Dr.P.Pugalenthi	ASP/ Mech		
17.	Mr.S.Prabhakaran	ASP/ Mech		
18.	Mr.K.Anand	AP/ Mech		
19.	Mr.T.Sathees	AP/ Mech		
20.	Mr.R.Meiyazhagan	AP/ Mech		



## Agenda

- ❖ The Chairman, Board of Studies welcomed the members.
- ❖ Vision and Mission of Institution and Department.
- ❖ PEOs, POs and PSOs of the Programme.
- ❖ Exemption from Professional Elective Courses for NPTEL courses
- ❖ Confirmation of the minutes of 11<sup>th</sup> Board of studies meeting held on 31.12.2024 and action taken report.  
To consider & approve the Curriculum and Syllabus of Semester V and Verticals IV, V, & VI and Minor degree of B.E. Mechanical Engineering Programme under Regulations 2023 and Semester VII of B.E. Safety and Fire Engineering Programme under Regulations 2019.
  - Curriculum, Credits and its structure
  - Syllabus
- ❖
  - List of Verticals
  - List of Open Electives
  - List of Minor degree courses
  - Assessment Weightage
  - NPTEL credit details
  - Programme credit details
- ❖ To discuss and approve NPTEL Course & Professional Elective Exemption.
- ❖ To discuss and approve Assessment Weightage.

**BoS / MECH 12.1** : The Chairman, Board of Studies welcomed the members.

**BoS / MECH 12.2** : Vision and Mission of Institution and Department were described.

**BoS / MECH 12.3** : PEOs, POs and PSOs of UG Programme were elucidated.

**BoS / MECH 12.4** : The Minutes of the 11<sup>th</sup> Board of Studies meeting held on 31.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.

**BoS / MECH 12.5** : Exemption from Professional Elective Courses for NPTEL courses were discussed.



**Suggestions given by the members regarding UG (Mech & SFE):**

**MECHANICAL ENGINEERING**

**ME23504 - Additive Manufacturing**

- Relevant content of Artificial Intelligence (AI) can be integrated into the course.

**ME23506 - Metrology and Measurements Lab**

- The number of experiments should be reduced to a total of 10.

**ME23454 - Computational Fluid Dynamics**

- The syllabus content needs to be simplified.
- Unit 5 should be revised either by changing its content or modifying the title.

**ME23654 - Advanced Thermochemical Energy Systems**

- Change the title of the course as “Thermochemical Energy Systems”.

**Professional Elective Exemption with NPTEL Course:**

S.NO	Professional Elective-III	NPTEL Course
1	ME20351-Computer Integrated Manufacturing Systems	Computer Integrated Manufacturing

**SAFETY AND FIRE ENGINEERING**

- The Format of textbook and reference book can be revised to follow standard formats.

**SF20706 - Project Work - Phase I**

- Define clear milestones and expected outcomes for each project review phase.

**SF20704 - Industrial Training (Fire Safety)**

- The placement cell should provide support for the industrial training course.
- Periodic reviews must be conducted to monitor student progress on a daily basis and to validate the training certificates.
- Advise students to enrol in NPTEL courses that are not part of the curriculum.
- Simplify the grading system for NPTEL courses.

**One Credit Course**

- A screening committee can be formed, and an industry expert should be involved in delivering the course.
- All one-credit courses are currently in practical mode, it is suggested to include some theory-based courses.



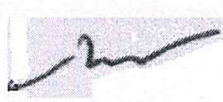
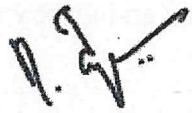
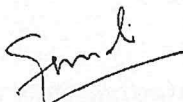
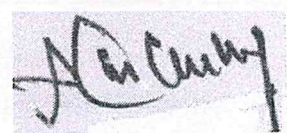
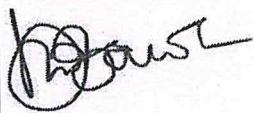
- BoS / MECH 12.6** : Discussed and got approved about Curriculum Structure, Syllabi & Course Outcomes of 5th semester, Professional Electives (Verticals IV, V and VI), and Minor Degree of B.E. Mechanical Engineering Programme under Regulations 2023 and Semester VII of B.E. Safety and Fire Engineering Programme under Regulations 2019.
- BoS / MECH 12.7** : Discussed and got approved about NPTEL Course & Professional Elective Exemption.
- BoS / MECH 12.8** : Discussed and got approved about Assessment Weightage.

The above suggestions were given by the members and approved the Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI), and Minor Degree of B.E. Mechanical Engineering Programme under Regulations 2023 and Semester VII of B.E. Safety and Fire Engineering Programme under Regulations 2019 and NPTEL Course & Professional Elective Exemption and panel of examiners.

**RESOLVED AND APPROVED THE SAME.**

The BoS members suggested valuable inputs on syllabus contents and for the overall improvement.

  
**Dr. A.P. Sivasubramaniam**  
 HoD/ MECH - BoS (Chairman)

Position in the committee	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.K.Kannan Prof/ Mech	Dr.R.Jeyapaul, Prof/ Mech	Dr.G.Sundaramali, ASP/ Mech	Mr.A.Maheshkumar, Head Automation	Mr.K.Sakthivel Assistant Manager
e-Signature					

# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in



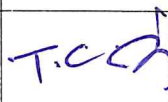
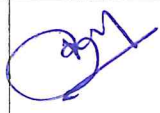
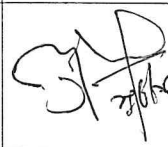

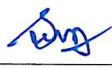

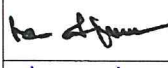

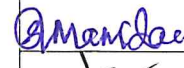

Date: 27.06.2025

## Minutes of the Board of Studies Meeting

Venue: Department of Mechatronics Engineering

Date and Time: 27.06.2025, 10.00 am

### Members

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.D.R.P.Rajarithnam	HoD & Prof / MCT	Chairman	Paavai Engineering College.	
2.	Dr.V.Sathiesh Kumar	Assistant Professor	University Nominee	MIT Campus, Anna University, Chennai.	
3.	Dr.T.C.Kanish	Professor	Academic Expert	VIT, Vellore	
4.	Dr.S.Syath Abuthakeer	Associate Professor	Academic Expert	PSG College Technology, Coimbatore.	
5.	Mr.L.Devarajan	Manager	Industry Expert	M/s. L.G. Balakrishnan & Bros LTD - Coimbatore.	ONLINE
6.	Mr.J.Mithun Dass	Design Engineer	Alumni	Quarks Automation and Robotics, Chennai.	
7.	Mrs.G.Umamaheswari	ASP/EEE	Member	Paavai Engineering College	
8.	Mr.S.Rajesh	ASP/CSE			
9.	Mr.A.Jayapal	AP/CIVIL			
10.	Dr.R.T.Ajaykarthik	Prof/MCT			
11.	Dr.C.Suresh	ASP/MCT			
12.	Mr.S.Manikandan	AP/MCT			
13.	Mr.R.Arunbabu	AP/MCT			

# PAAVAI ENGINEERING COLLEGE



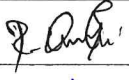
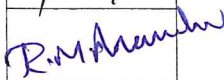
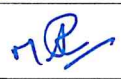

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.i

14	Mr.S.Manikandan	AP/MCT	Member	Paavai Engineering College	
15	Mr.C.Vibin Stalin	AP/MCT			
16	Mr.R.Karthick	AP/MCT			
17	Mrs.R.M.Tamilselvi	AP/MCT			
18	Mr.M.Raja	AP/MCT			
19	Mr.D.Anandhan	AP/MCT			

# PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

## DEPARTMENT OF MECHATRONICS ENGINEERING

### Minutes of 12<sup>th</sup> Board of Studies Meeting

Venue: Department of Mechatronics Engineering

Date and Time: 27.06.2025, 10.00 a.m.

The 12<sup>th</sup> Board of studies meeting of the Mechatronics Engineering Department was held on 27.06.2025 at 10.00 a.m. Organized by the Department of Mechatronics Engineering, Paavai Engineering College, Namakkal. The following members were present for the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.D.R.P.Rajarithnam	HoD & Prof / MCT	Chairman	Paavai Engineering College.
2.	Dr. V.Sathiesh Kumar	Assistant Professor	University Nominee	MIT Campus, Anna University, Chennai.
3.	Dr. T.C.Kanish	Professor	Academic Expert	VIT, Vellore.
4.	Dr. S.Syath Abuthakeer	Associate Professor	Academic Expert	PSG College Technology, Coimbatore.
5.	Mr. L.Devarajan	Manager	Industry Expert	M/s. L.G. Balakrishnan & Bros LTD – Coimbatore.
6.	Mr. J.Mithun Dass	Design Engineer	Alumni	Quarks Automation and Robotics, Chennai.
7.	Mrs.G.Umamaheswari	ASP/EEE	Member	Paavai Engineering College
8.	Mr.S.Rajesh	ASP/CSE		
9.	Mr.A.Jayapal	AP/CIVIL		
10.	Dr. R.T.Ajaykarthik	Prof/MCT		
11.	Dr. C.Suresh	ASP/MCT		
12.	Mr. S.Manikandan	AP/MCT		
13.	Mr. R.Arunbabu	AP/MCT		
14.	Mr. S.Manikandan	AP/MCT		
15.	Mr. C.Vibin Stalin	AP/MCT		
16.	Mr. R.Karthick	AP/MCT		
17.	Mrs. R.M.Thamilselvi	AP/MCT		
18.	Mr. M.Raja	AP/MCT		
19.	Mr. D.Anandhan	AP/MCT		



## Agenda

- **Welcome Address**
- **Vision and mission of Institution and Department.**
- **PEOs, POs and PSOs of the Programme.**
- **Confirmation of the minutes of the 11th Board of studies meeting held on 28.12.2024 and action taken report.**
- **To consider & approve the Curriculum and Syllabus of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree of B.E. Mechatronics Engineering Programme under Regulations 2023.**
  - Curriculum, Credits and its structure
  - 5<sup>th</sup> Semester Syllabus
  - List of Professional Electives (Verticals IV, V and VI) and Minor Degree.
- **To discuss and approve NPTEL Course & Professional Elective Exemption.**
- **To discuss and approve fast track mode for eligible students.**
- **To discuss and approve Assessment Weightage.**

### **Minutes of the BoS Meeting**

**BoS / MCT 12.1** : The Board of studies Chairman welcomed the members.

**BoS / MCT 12.2** : Vision and Mission of Institution and Department were described.

**APPROVED THE SAME.**

**BoS / MCT 12.3** : PEOs, POs and PSOs of the Programme were described.

**APPROVED THE SAME.**

**BoS / MCT 12.4** : The minutes of the 11<sup>th</sup> Board of Studies meeting held on 28.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation.

**APPROVED THE SAME.**

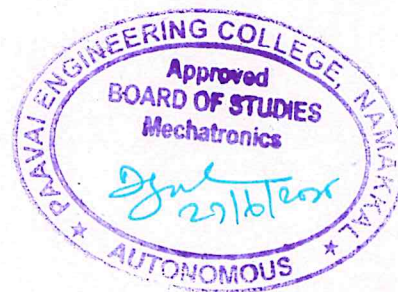
**BoS / MCT 12.5** : **To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree for B.E. Mechatronics Engineering Programme (CBCS) to be offered under Regulations 2023 with effect from the Academic Year 2025-2026 onwards.**

**Suggestions given by the members regarding UG syllabus:**

### **Semester - V**

#### **1. MEMS and NEMS**

- Reduce the syllabus contents of unit 3 and unit 5, if possible.



#### Vertical - IV

- Advanced Machining Processes**
  - Title of unit 4 need to be changed.
- Digital Twin and Industry 5.0**
  - Reduce the syllabus contents of all units, if possible.

#### Vertical - V

- Digital Signal Processing**
  - Course title need to be modified/changed as per the vertical domain.
- Introduction to Machine Learning**
  - Fuzzy logic contents need to be include.
- Digital Image Processing**
  - Course title need to be modified/changed as per the vertical domain.
  - Contents of Feature extraction and filter techniques need to be include.
- Introduction to Internet of Things**
  - Include intelligence related contents.

#### Vertical - VI

- Drone Technology**
  - Laws and regulation contents need to include.
- Design of UAV**
  - Case studies to be included in unit 5.

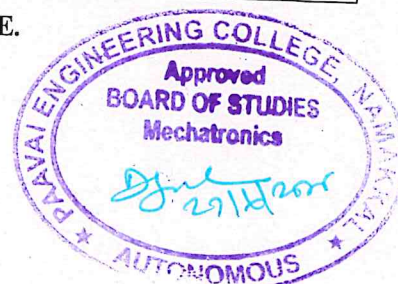
#### Minor Degree

- Hydraulics and Pneumatics**
  - Rename the unit 5 title as Hydraulic and Pneumatic Valves.
  - Text books need to be updated.

#### **List of Professional Elective Exemption with NPTEL Course:**


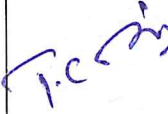


S.No	Professional Elective	NPTEL Course
1	MT23*** - Additive Manufacturing	Fundamentals of Additive Manufacturing Technologies
2	MT23*** - Advanced Machining Processes	Advanced Machining Processes
3	MT23*** - Microrobotics	Microrobotics
4	MT23*** - Deep Learning	Deep Learning
5	MT23*** - Introduction to Machine Learning	Introduction to Machine Learning
6	MT23*** - Introduction to Internet of Things	Introduction to Internet of Things
7	MT23*** - Operations Research	Industrial Engineering and Operations Research

**RESOLVED AND APPROVED THE SAME.**



- BoS / MCT 12.6** : Discussed and got approved about Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester and Professional Electives (Verticals IV, V and VI) and Minor Degree.
- BoS / MCT 12.7** : Discussed and got approved about NPTEL Course & Professional Elective Exemption.
- BoS / MCT 12.8** : Discussed and got approved about fast track mode for eligible students.
- BoS / MCT 12.9** : Discussed and got approved about Assessment Weightage.

The above suggestions were given by the members and approved the Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree for UG under R2023 for the students admitted in the year 2023-2024 and NPTEL Course & Professional Elective Exemption and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr. D.R.P.Rajaraman Professor & Head, MCT	Dr. V. Sathiesh Kumar, AP, ECE, MIT, Chennai.	Dr. T.C. Kanish Professor, VIT, Vellore	Dr. S. Syath Abuthakeer, ASP, PSG, Coimbatore	Mr. L. Devarajan, Manager, M/s. L.G. Balakrishnan & Bros LTD, Coimbatore.	Mr. J. Mithun Dass, Design Engineer, Quarks Automation and Robotics, Chennai.
Signature						



**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**DEPARTMENT OF ROBOTICS AND AUTOMATION**

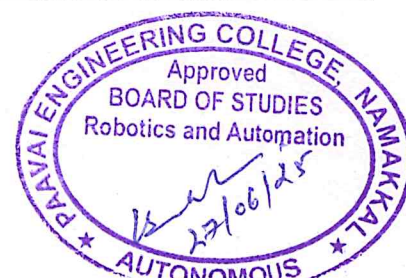
**Minutes of 5<sup>th</sup> Board of Studies Meeting**

**Venue: Department of Robotics and Automation**

**Date and Time: 27.06.2025, 10.00 a.m.**

The 5<sup>th</sup> Board of studies meeting of the Robotics and Automation Department was held on 27.06.2025 at 10.00 a.m. Organized by the Department of Robotics and Automation, Paavai Engineering College, Namakkal. The following members were present for the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.V.Subburam	HoD & Prof / R&A	Chairman	Paavai Engineering College.
2.	Dr. V. Sathiesh Kumar	Assistant Professor	University Nominee	MIT Campus, Anna University, Chennai.
3.	Dr. T.C. Kanish	Professor	Academic Expert	VIT, Vellore.
4.	Dr. S.Syath Abuthakeer	Associate Professor	Academic Expert	PSG College Technology, Coimbatore.
5.	Mr. L. Devarajan	Manager	Industry Expert	M/s. L.G. Balakrishnan & Bros LTD – Coimbatore.
6.	Mr. J. Mithun Dass	Design Engineer	Alumni	Quarks Automation and Robotics, Chennai.
7.	Dr.S.Suganya	AP/EEE	Member	Paavai Engineering College
8.	Dr. C. Suresh	ASP/MCT		
9.	Mr.A. Jayapal	AP/CIVIL		
10.	Dr.M.Matheswaran	AP/R&A		
11.	Mr.K.Mohanraj	AP/R&A		
12.	Mr.R.Bharath	AP/R&A		
13.	Mr. S.Suryakumar	AP/R&A		
14.	Mr.V.Kumarakrishnan	AP/EEE		
15.	Ms. P. Elakkiya	AP/EEE		
16.	Mr. P. Raja	AP/MECH		
17.	Dr.S.T.Kumaravel	ASP/MECH		
18.	Mr.K.Anand	AP/MECH		
19.	Mr.T.Thangavel	AP/MECH		

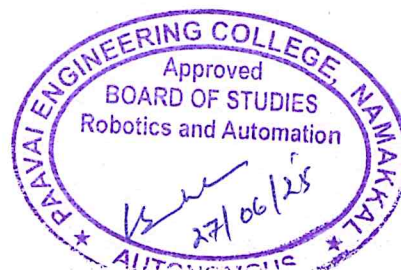


## Agenda

- Welcome Address
- Vision and mission of Institution and Department.
- PEOs, POs and PSOs of the Programme.
- Confirmation of the minutes of the 4<sup>th</sup> Board of studies meeting held on 28.12.2024 and action taken report.  
To Consider & approve the Curriculum and Syllabus of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree of B.E. Robotics and Automation Programme under Regulations 2023.
  - Curriculum, Credits and its structure
  - 5<sup>th</sup> Semester Syllabus
  - List of Professional Electives (Verticals IV, V and VI) and Minor Degree.
- To Consider & approve the Curriculum and Syllabus of 7<sup>th</sup> semester, Professional Electives of B.E. Robotics and Automation Programme under Regulations 2019.
- To discuss and approve NPTEL Course for Professional Elective Exemption.
- To discuss and approve Assessment Weightage.

### Minutes of the BoS Meeting

<b>BoS / R&amp;A 5.1</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / R&amp;A 5.2</b>	:	Vision and Mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / R&amp;A 5.3</b>	:	PEOs, POs and PSOs of the Programme were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / R&amp;A 5.4</b>	:	The minutes of the 4 <sup>th</sup> Board of Studies meeting held on 28.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. <b>APPROVED THE SAME.</b>
<b>BoS / R&amp;A 5.5</b>	:	To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of 5 <sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree for B.E. Robotics and Automation Programme (CBCS) to be offered under Regulations 2023 with effect from the Academic Year 2025-2026 onwards.



<b>BoS / R&amp;A 5.6</b>	<b>:</b>	To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of 7 <sup>th</sup> semester and Professional Electives for B.E. Robotics and Automation Programme (CBCS) to be offered under Regulations 2019.
--------------------------	----------	--

**Suggestions given by the members regarding UG syllabus:**

**Vertical - III**

The courses of vertical III should be completely changed and the syllabus should also be accordingly changed for each course.

**Semester - V**

**1. Design of Robot Elements**

- Add Robot fixtures in appropriate unit

2. The course, "Object Oriented Programming in C++" should be removed from the vertical V and an appropriate course should be added in its place.

**3. Embedded Systems**

- Add subject related topics and remove microprocessor related topics. The contents of the course should be completely changed to match the title. Real time operating system, applications and case studies should be added.

**Vertical - IV**

**1. Computer Vision and Image Processing**

- Remove Machine Learning topic and add matrix calculations topic

**2. Digital Twins**

- Remove digital related topics which are repeated in all units
- Change unit title appropriately related to the unit content

**Vertical - V**

**1. Motion Control System**

- Add application related topic in appropriate unit

**2. Agricultural Robotics and Automation**

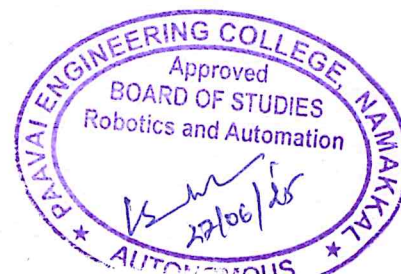
- Add robotic applications which are latest developments in the field along with topic on UAV.

3. **Industrial IoT and Automation** – In this course, A topic on IIoT should be added.

**Vertical - VI**

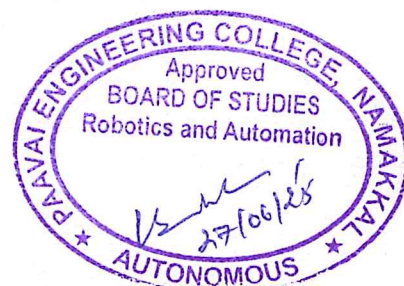
**1. Introduction to Control System**



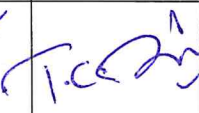

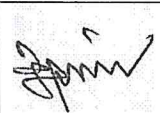
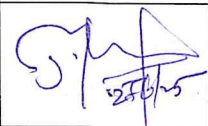
- Change subject title and syllabus contents completely which is appropriate to the course.

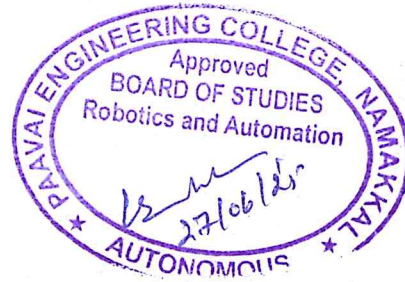


<b>2.</b>	<b>Smart Sensors</b>	
	<ul style="list-style-type: none"> <li>• Add safety sensor topic in appropriate unit</li> </ul>	
	<ul style="list-style-type: none"> <li>• Add advanced sensors in the course</li> </ul>	
	<ul style="list-style-type: none"> <li>• Signals and Systems course is wrongly categorized under Intelligence System , such mismatch should be avoided</li> </ul>	
<b>3.</b>	<b>Robot Safety and Maintenance –In this course contents should be reduced in all units.</b>	
	Common – Vertical are mismatching and Courses should be included under appropriate headings. There are some basic courses which are included in verticals and that should be removed	
<b>Regulations 2019</b>		
<b>1.</b>	<b>Vision Systems</b>	
	<ul style="list-style-type: none"> <li>• Add machine vision topic related to the unit</li> </ul>	
<b>2.</b>	<b>Automation and Sensor Systems Laboratory</b>	
	<ul style="list-style-type: none"> <li>• Automation related experiments are not there. Automation related experiments should be added.</li> </ul>	
<b>3.</b>	<b>Computer Integrated Manufacturing</b>	
	<ul style="list-style-type: none"> <li>• Change unit 2 title as Product planning</li> </ul>	
	<ul style="list-style-type: none"> <li>• Change unit 3 title as Process planning</li> </ul>	
	<ul style="list-style-type: none"> <li>• Change unit 3 title as FMS and add material handling topic in appropriate places</li> </ul>	
<b>List of Professional Elective Exemption with NPTEL Course:</b>		
<b>S.No</b>	<b>Professional Elective</b>	<b>NPTEL Course</b>
1	Computer Integrated Manufacturing	Computer Integrated Manufacturing
2	Micro robotics	Micro robotics
<b>RESOLVED AND APPROVED THE SAME.</b>		
<b>BoS / R&amp;A 5.7</b>	:	Discussed and got approval of Exemption of Professional Elective courses for passing NPTEL Courses.
<b>BoS / R&amp;A 5.8</b>	:	Discussed and got approved about Assessment Weightage.

The above suggestions were given by the members in the Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree for UG under R2023 for the students admitted in the year 2023-2024 and 7<sup>th</sup> semester Professional Elective of R2019 which should be carried out. Panel approval is sought for exemption of Professional Elective course for doing NPTEL Course.



Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr.V.Subburam Professor & Head, Robotics and Automation.	Dr. V. Sathiesh Kumar, AP, ECE, MIT, Chennai.	Dr. T.C. Kanish Professor, VIT, Vellore	Dr. S. Syath Abuthakeer, ASP, PSG, Coimbatore	Mr. L. Devarajan, Manager, M/s. L.G. Balakrishnan & Bros LTD, Coimbatore.	Mr. J. Mithun Dass, Design Engineer, Quarks Automation and Robotics, Chennai.
Signature						



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

Date: 26.06.2025

## DEPARTMENT OF AGRICULTURAL ENGINEERING

### 12<sup>th</sup> Board of Studies Meeting

Venue: Placement GD hall

Date and Time: 26.06.2025, 10.30 am

#### Members Present

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature with Date
1	Dr. B.Kailashkumar	HOD & Associate Professor / Agri	Chairman	Paavai Engineering College, Namakkal.	<i>B. Kailashkumar</i> 26/06/25
2	Dr. P.S.Sudhakar Gandhi	Assistant Professor	University Nominee	Department of Biotechnology UCE-BIT Campus, Tiruchirappalli	<i>P.S. Sudhakar</i> 26/6/25
3	Dr. C. Mayilswami	Professor	Academic Expert-1	Karunya Institute of Technology and Sciences, Coimbatore-6411	ONLINE
4	Dr.R.Rajam	Associate Professor	Academic Expert-2	Department of Food Technology, Kalasalingam Academy of Research and Education, Krishan kovil.	<i>R. Rajam</i> 26/06/25
5	Mr.Prabakar Kesavan	Senior Engineer	Industry Expert	Manufacturing division Prince pipes and fittings Limited, Chennai-6000095.	<i>P. Prabakar</i> 26/06/25
6	T. Karthikeyan	Engineer, Customer Support	Alumni	Mobitech, Erode	<i>T. Karthikeyan</i> 26/06/25
7	Dr.P.Tamilchelvan	Professor/ Agri	Members Paavai Engineering College		<i>P. Tamilchelvan</i> 26/6/25
8	Mrs.A.Subashini	AP/ Agri			<i>A. Subashini</i> 26/6/25
9	Mrs.M.Bhuvanewari	AP/ Agri			<i>M. Bhuvanewari</i> 26/6/25
10	Mr.D.Anandan	AP/ Agri			<i>D. Anandan</i> 26/6/25
11	Mr.A.Meignanamoothi	AP/ Agri			<i>A. Meignanamoothi</i> 26/6/25
12	Mr.B.Mano	AP/ Agri			<i>B. Mano</i> 26/6/25
13	Mr.N.Satheswaran	AP/ Agri			<i>N. Satheswaran</i> 26/6/25
14	Mrs.K.S.Subha	AP/ Agri			<i>K.S. Subha</i> 26/6/25

**PAAVAI ENGINEERING COLLEGE**  
(Autonomous)  
**DEPARTMENT OF AGRICULTURAL ENGINEERING**


**Minutes of Twelfth - Board of Studies Meeting**

**Venue: Placement G.D hall**

**Date and Time: 26.6.2025, 10.30 AM**

Minutes of 12<sup>th</sup> Board of Studies meeting held on 26.6.2025, 10.30 AM Placement G.D hall through offline mode.

**The following members were present**

S. No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr. B.Kailashkumar	HOD/ Agri	Chairman	Paavai Engineering College, Namakkal.
2.	Dr. P.S. Sudhakar Gandhi	Professor	University Nominee	Department of Biotechnology UCE-BIT Campus, Tiruchirappalli
3.	Dr. C. Mayilswami	Professor	Academic Expert-1	Karunya Institute of Technology and Sciences, Coimbatore – 641 111
4.	Dr.R.Rajam	Associate Professor	Academic Expert-2	Department of Food Technology, Kalasalingam Academy of Research and Education, Krishankovil.
5.	Mr. Prabakar Kesavan	Senior Engineer	Industry Expert	Senior Engineer, Manufacturing division, Prince Pipes and Fittings Limited, Chennai-6000095
6.	Mr.T. Karthikeyan	Regional Engineer, Customer Support	Alumni	M/S. Mobitech, Erode
7.	Dr.K.Selvi	Dean Academics	Special Invitee	Paavai Engineering College
8.	Dr.P.Tamilchelvan	Professor/ Agri	<p>Members</p> <p>Paavai Engineering College</p> 	
9.	Mrs.A.Subashini	AP/ Agri		
10.	Mrs.M.Bhuvaneswari	AP/ Agri		
11.	Mr.D.Anandan	AP/ Agri		
12.	Mr.A.Meignanamoorthi	AP/ Agri		
13.	Mr.B.Mano	AP/ Agri		

14.	Mr.N.Satheswaran	AP/ Agri	
15.	Ms.K.S.Subha	AP/ Agri	

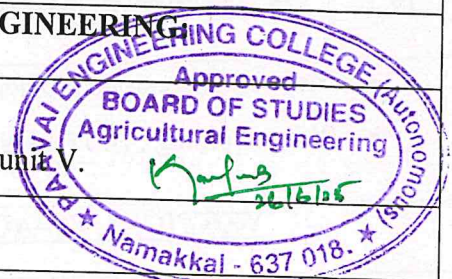
**AGENDA**

➤	<b>Welcome Address</b>
➤	<b>Vision and mission of Institution and Department.</b>
➤	<b>PEOs, POs and PSOs of UG programmes.</b>
➤	<b>Confirmation of the minutes of the 11<sup>th</sup> Board of studies meeting held on 27.05.2024 and action taken report.</b>
➤	<p><b>To consider &amp; approve the 5<sup>th</sup> semester and verticals IV, V and VI for B.Tech-Agricultural Engineering Programme under Regulations 2023.</b></p> <ul style="list-style-type: none"> <li>• Curriculum, Credits and its structure, Syllabus</li> <li>• List of Verticals</li> <li>• List of open electives</li> <li>• List of Minor degree courses</li> <li>• Details of Fast track students and their courses.</li> <li>• Amendments if any</li> </ul>
➤	<b>To discuss and approve Transfer of Credits.</b>
➤	<b>To discuss and approve Fast track mode for eligible students.</b>
➤	<b>To discuss and approve Assessment Weightage.</b>

<b>MINUTES OF THE BOS MEETING</b>		
<b>BoS / Agri 12.1</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / Agri 12.2</b>	:	Vision and mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / Agri 12.3</b>	:	PEOs, POs and PSOs of UG were described.
<b>APPROVED THE SAME.</b>		



BoS / Agri 12.4	:	The minutes of the 11 <sup>th</sup> Board of Studies meeting held on 27.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.
<b>APPROVED THE SAME</b>		
BoS / Agri 12.5	:	To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of V semester and verticals IV, V and VI for B.Tech - Agricultural Engineering Programme (CBCS) to be offered under Regulations 2023 with effect from the Academic Year 2023-2024 onwards.
<b><u>Suggestions given by the members :</u></b>		
<b><u>V SEMESTER</u></b>		
<ul style="list-style-type: none"> <li>• Members suggested referring AICTE AND ICAR while framing up of the syllabus.</li> <li>• Members suggested using updated text books and reference books</li> <li>• Books can be updated</li> <li>• Hunter irrigation and IRRI CARE courses can be added as Value added course</li> </ul>		
1.	<b>AI23501- AGRICULTURAL BUSINESS MANAGEMENT AND ENTREPREUNERSHIP</b>	
<ul style="list-style-type: none"> <li>• Supply chain management can be included in unit III</li> <li>• KRA , KPR and RoI calculations can also be included.</li> <li>• Syllabus contents can be added in unit V.</li> </ul>		
2.	<b>AI23402-FARM MACHINERY AND EQUIPMENT</b>	
<ul style="list-style-type: none"> <li>• Addition of Sprayer in Unit -IV</li> <li>• Title for cultural operations can be modified as different farming operations.</li> <li>• Interchange of syllabus contents of unit can be done accordingly starting with operations followed by equipment.</li> </ul>		
3	<b>AI 23504-SOIL AND WATER CONSERVATION ENGINEERING</b>	
<ul style="list-style-type: none"> <li>• Runoff topic can be included in unit V.</li> <li>• Basics like design of percolation ponds can be introduced unit V.</li> </ul>		
4	<b>AI23505- THERMAL ENGINEERING</b>	



- The cycles can be introduced in the syllabus.
- The syllabus can be brought sequentially and unit v can be changed.

5 | **AI 23506- FOOD AND DAIRY ENGINEERING LABORATORY**

- The Credits can be changed or the addition of experiments.
- Experiments can be altered/added.

6 | **AI23507- FARM MACHINERY LABORATORY.**

- Harvesting machineries title can modified instead of harvesting of agricultural implement.

**VERTICAL -IV- GENERAL AGRICULTURE**

7. | **AI23451- SUSTAINABLE AGRICULTURE AND FOOD SECURITY**

- Unit II- Conjunctive use of ground and surface can be added instead of utilization of resources.

8. | **AI23402- PROTECTED CULTIVATION AND PRECISION FARMING :**

- Management of vertical farming can be added in Unit II

9. | **AI23455- SEED PRODUCTION TECHNOLOGY**

- Title for Unit IV can be changed.
- Unit II content can be increased by adding variety of crops/ cereals

10. | **AI23456-CLIMATE CHANGE AND ADAPTATION**

- Unit II and Unit I can be interchanged.
- Unit IV title can be restructured.
- Anthropogenic activity can be included in Unit III.
- Greenhouse gases emission and mitigation can be included.

**VERTICAL -V ENERGY MANAGEMENT**

11 | **AI23551 - ERGONOMICS AND SAFETY IN AGRICULTURAL ENGINEERING**

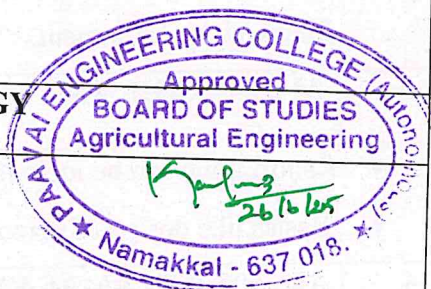
- Personal protection can be included in Unit I
- ISO 50001: EMS can be included in Unit I

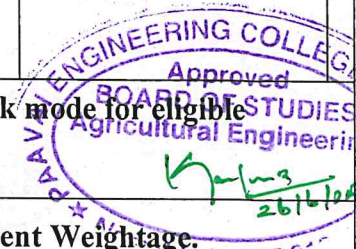
12 | **AI23554- BIO ENERGY RESOURCE TECHNOLOGY**

- Biopolymers can be included in the syllabus in Unit I.
- Bio processing , Bio fuel can be added in unit II


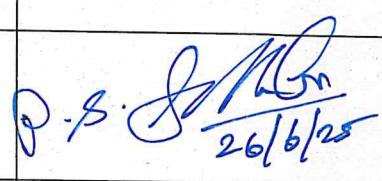
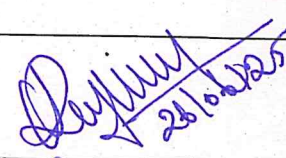
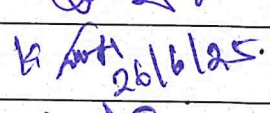
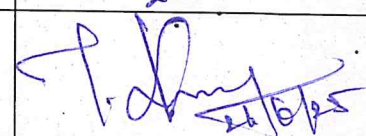
**VERTICAL VI -AGRICULTURAL MANAGEMENT**

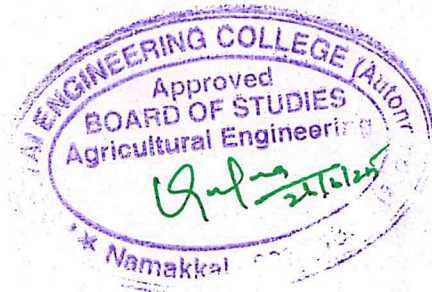
13 | **AI23655- FLOOD AND CONROL MEASURES**



<ul style="list-style-type: none"> <li>Flood control can be added in unit III</li> </ul>															
14	<b>AI23655- URBAN AGRICULTURE</b>														
<ul style="list-style-type: none"> <li>Unit contents of I and II contents can be altered</li> <li>Unit II agro forestry can be revamped.</li> </ul>															
15	<b>AI23657- DIGITAL AGRICULTURE</b>														
<ul style="list-style-type: none"> <li>Unit I can be elaborated form of digital agriculture giving detail.</li> </ul>															
<b>RESOLVED AND APPROVED THE SAME.</b>															
<b>BoS / Agri 12.6</b>	: <b>Discussed and got approved about curriculum structure, syllabi &amp; course outcomes of 5<sup>th</sup> semester, professional electives (Verticals IV , V and VI) and minor degree of B.Tech Agricultural Engineering.</b>														
<b>Minor –Agricultural Systems</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S. No</th> <th>Course Title</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fundamentals of Horticulture</td> </tr> <tr> <td>2</td> <td>Farming System and Sustainable Agriculture</td> </tr> <tr> <td>3</td> <td>Landscaping and Ornamental Gardening</td> </tr> <tr> <td>4</td> <td>Environmental Soil Physics</td> </tr> <tr> <td>5</td> <td>Poultry Farm Management</td> </tr> <tr> <td>6</td> <td>Fundamentals of Aquaculture</td> </tr> </tbody> </table>		S. No	Course Title	1	Fundamentals of Horticulture	2	Farming System and Sustainable Agriculture	3	Landscaping and Ornamental Gardening	4	Environmental Soil Physics	5	Poultry Farm Management	6	Fundamentals of Aquaculture
S. No	Course Title														
1	Fundamentals of Horticulture														
2	Farming System and Sustainable Agriculture														
3	Landscaping and Ornamental Gardening														
4	Environmental Soil Physics														
5	Poultry Farm Management														
6	Fundamentals of Aquaculture														
<b>APPROVED THE SAME.</b>															
<b>BoS / Agri 12.7</b>	: <b>Discussed and got approved about Transfer of Credits for NPTEL Courses.</b>														
<b>APPROVED THE SAME.</b>															
<b>FAST TRACK STUDENTS LIST</b>															
<b>NAME OF THE STUDENTS</b>	<b>V SEM</b>	<b>VI SEM</b>	<b>VII SEM</b>												
S.Kaviyarasi	AI20653- Disaster Management	AI20801- Agricultural Economics And Extension.	AI20551- Sustainable Agriculture & Food Security												
M.Velan															
Suwaitha.S															
<b>BoS / Agri 12.8</b>	: <b>Discussed and got approved about fast track mode for eligible students.</b>														
<b>BoS / Agri 12.9</b>	: <b>Discussed and got approved about Assessment Weightage.</b>														

The above suggestions were given by the members and approved the overall curriculum and syllabi for the UG programme of Regulations 2023 (CBCS) for students admitted during the year 2023-2024 ,Programme courses, Open electives, Verticals ,Minors, Value added course and Panel of Examiners.

S.NO	NAME	POSITION IN THE COMMITTEE	SIGNATURE
1	Dr. B.Kailashkumar HOD & Associate Professor	Chairman	 26/6/25
2	Dr. P.S. Sudhakar Gandhi Assistant Professor	University Nominee	 26/6/25
3	Dr. C. Mayilswami Professor	Academic Expert-I	ONLINE
4	Dr.R.Rajam Professor	Academic Expert-II	 26/6/25
5	Mr. Prabakar Kesavan	Industrial expert	 26/6/25
6	T. Karthikeyan Engineer,	Alumni	 26/6/25



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

Date: 05.07.2025

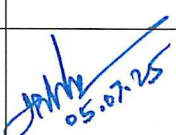




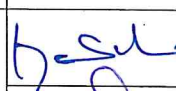

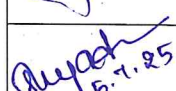
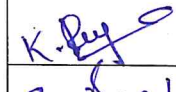



## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

### Minutes of 3<sup>rd</sup> Board of Studies Meeting

Venue: Placement Conference Hall

Date and Time: 05.07.2025, 1.00 pm

#### Members Present

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.A.Manikandan	HOD & Professor / AI & DS	Chairman	Paavai Engineering College	
2.	Dr.K.Sathya Priya	Prof /CSE	University Nominee	PSG College of Technology, Coimbatore	
3.	Dr.P.Karthikeyan	ASP /CSE	Academic Expert 1	RV University, Bangalore	
4.	Dr.S.Sri Vidhya	Professor & Head / ISE	Academic Expert 2	BNM Institute of Technology, Bangalore.	
5.	Mr.D.Saravanan	Software Engineer III	Industry Expert	Walmart Global tech, Bangalore.	
6.	Mr. G.Arul Selvam	Software Developer	Alumni	Vikilead IT Solution, Chennai.	AB
7.	Dr.K.Selvi	Dean Academics	Member	Paavai Engineering College	
8.	Dr.B.Venkatesan	HOD /ASP/IT			
9.	Mr.M.Sathya Sundaram	ASP/AI&DS			
10.	Ms.S.Saranya devi	AP/AI&DS			
11.	Ms.K.Ramya	AP/AI&DS			
12.	Dr.G.Madasamy Raja	Prof/IT			
13.	Dr.P.Muthusamy	Prof/IT			
14.	Dr.P.Purusothaman	ASP/IT			

# PAAVAI ENGINEERING COLLEGE

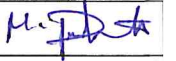
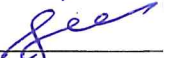


(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: <http://pec.paavai.edu.in>

15.	Mrs.M.Pushpalatha	ASP/IT	Member	Paavai Engineering College	
16.	Dr.S.Saravanakumar	ASP/IT			
17.	Mr.S.Rajesh	ASP/IT			
18.	Mrs.P.Anitha	AP/IT			

## Agenda

➤	<b>Welcome Address</b>
➤	<b>Vision and Mission of Institution and Department.</b>
➤	<b>PEOs, POs and PSOs of UG Programmes.</b>
➤	<b>Confirmation of the minutes of the 2<sup>nd</sup> Board of studies meeting held on 18.12.2024 and action taken report.</b>
➤	<b>Framing of Curriculum and Syllabus</b> <ul style="list-style-type: none"> <li>• Feedback from Stakeholders</li> <li>• Syllabus Review Committee (SRC) – 16.06.2025 @ 12.30 pm</li> <li>• Department Advisory Committee (DAC) – 03.07.2025 @ 2.00 pm</li> </ul>
➤	<b>To consider &amp; approve the Curriculum and Syllabus of 5<sup>th</sup> semester and Professional Electives (Vertical Subjects 1,2,3 and 4) of B.Tech Artificial Intelligence and Data Science Programme under Regulations 2023.</b> <ul style="list-style-type: none"> <li>• Curriculum, Credits and its structure</li> <li>• Syllabus - List of Professional Electives</li> <li>• List of One Credit Courses</li> <li>• List of Value Added Courses</li> <li>• List of Mandatory Courses</li> </ul>
➤	<b>To discuss and approve Transfer of Credits.</b>
➤	<b>To discuss and approve fast track mode for eligible students.</b>
➤	<b>To discuss and approve Assessment Weightage.</b>
➤	<b>Any other items relevant to the board of studies.</b>

### Minutes of the BoS Meeting

<b>BoS / AI &amp; DS 3.1</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / AI &amp; DS 3.2</b>	:	Vision and Mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / AI &amp; DS 3.3</b>	:	PEOs, POs and PSOs of UG Programme were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / AI &amp; DS 3.4</b>	:	The minutes of the 2 <sup>nd</sup> Board of Studies meeting held on 18.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation.
<b>APPROVED THE SAME.</b>		
<b>BoS / AI &amp; DS 3.5</b>	:	To consider & approved the Curriculum and Syllabus of 5 <sup>th</sup> semester and Professional Electives (Vertical Subjects 1,2,3 and 4) of B.Tech Artificial Intelligence and Data Science Programmes under Regulations 2023.

Suggestions given by the members regarding UG syllabus:

**SEMESTER-V**

1. Data and Information Security
  - Revise Bloom's Taxonomy levels according to the syllabus.
2. Data Science Laboratory
  - Include statistics related experiments in Data Science Laboratory.

**VERTICAL-I AI ENGINEERING**

1. Suggested to remove Soft Computing and include Evolutionary Computing.

**VERTICAL-II FULL STACK DEVELOPMENT**

1. UI & UX Design
  - Suggested to modify the subject by removing UI & UX Design laboratory.

**VERTICAL-III CLOUD AND DATA CENTER TECHNOLOGIES**

1. Suggested to change the title and syllabus related to recent Cloud and Data Center Technologies.
2. Include Prompt Engineering, Quantum Computing, Cognitive Science under this vertical.

**VERTICAL-IV DATA ANALYTICS**

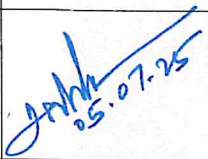
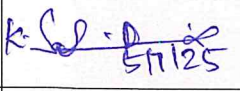
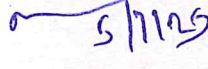

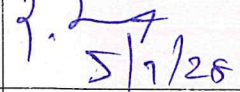
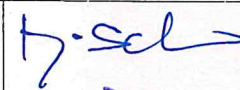
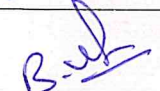

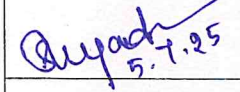


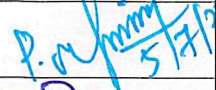
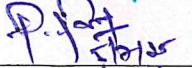

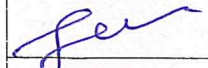

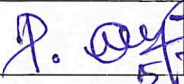
1. AI in Healthcare Analytics
  - Revise the Fifth unit title and syllabus.
2. Image and Video Analytics
  - Include Video Tracking related topics in Fifth unit.

**APPROVED THE SAME.**

BoS / AI & DS 3.6	:	Discussed and got approval about B.E/B.Tech (Minor in other Specialization)
BoS / AI & DS 3.7	:	Discussed and got approval for Transfer of Credits for NPTEL Courses.
BoS / AI & DS 3.8	:	Discussed and got approval for fast track mode for eligible students.
BoS / AI & DS 3.9	:	Discussed and got approval for Assessment Weightage.
Bos / AI & DS 3.10	:	Discussed and got approval for the student S. Sankayan, who was previously pursuing his undergraduate studies at Peri Institute of Technology, has been transferred into the third semester of the B.Tech – AI & DS programme at Paavai Engineering College (Autonomous), Namakkal, under the Regulations 2023.

The above suggestions were given by the members and approved the Curriculum and Syllabus of 5<sup>th</sup> semester, Professional Electives (Vertical Subjects 1, 2, 3 and 4), open electives, value added courses and panel of examiners of B. Tech Artificial Intelligence and Data Science Programmes under Regulations 2023.

### Committee Members

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.A.Manikandan	HOD & Professor / AI & DS	Chairman	Paavai Engineering College	 25.07.25
2.	Dr.K.Sathya Priya	Professor /CSE	University Nominee	PSG College of Technology,Coimbatore	 5/1/25
3.	Dr.P.Karthikeyan	Associate Professor / CSE	Academic Expert 1	RV University, Bangalore	 5/1/25
4.	Dr.S.SriVidhya	Professor & Head / ISE	Academic Expert 2	BNM Institute of Technology, Bangalore.	 5/1/25
5.	Mr.D.Saravanan	Software Engineer III	Industry Expert	Walmart Global tech, Bangalore.	 5/7/25
6.	Mr.G.Arul Selvam	Software Developer	Alumni	Vikilead IT Solution, Chennai.	AB
7.	Dr.K.Selvi	Dean Academics/ Professor / IT	Member	Paavai Engineering College	
8.	Dr.B.Venkatesan	HOD /Associate Professor/IT			
9.	Mr.M.SathyaSundaram	Associate Professor/AI&DS			
10.	Ms.S.Saranya devi	Assistant Professor/AI&DS			 5.7.25
11.	Ms.K.Ramya	Assistant Professor/AI&DS			
12.	Dr.G.Madasamy Raja	Professor/IT			
13.	Dr.P.Muthusamy	Professor/IT			 5/7/25
14.	Dr.P.Purusothaman	ASP/IT			
15.	Mrs.M.Pushpalatha	ASP/IT			
16.	Dr.S.Saravanakumar	ASP/IT			
17.	Mr.S.Rajesh	ASP/IT			
18.	Mrs.P.Anitha	AP/IT	 5/7		

# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

Date: 20.06.2025

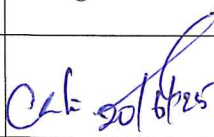



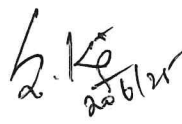
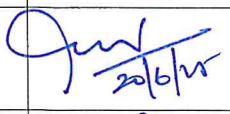
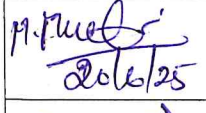

## Minutes of 5<sup>th</sup> Board of Studies Meeting

### DEPARTMENT OF BIOTECHNOLOGY

Venue: GD Hall

Date and Time: 20-06-2025 and 11.00 A.M.

#### Members Present

S.No	Name	Designation	Position in the Committee	College/ University/ Industry	Signature
1	Dr.C.Nirmala	Professor & Head/ Biotechnology	Chairman	Paavai Engineering College	
2	Dr.S.Geetha	Assistant Professor / Biotechnology	University Nominee	University College of Engineering, BIT Campus, Anna University, Tiruchirappalli	
3	Dr.C.Rajasekaran	Professor / Biotechnology	Academic Expert	School of Bio Sciences and Technology, VIT University, Vellore	
4	Dr. M. Lakshmi Prabha	Assistant Professor (SG) / Biotechnology	Academic Expert	Karunya Institute of Technology and Sciences, Coimbatore	
5	Mr.S.Karthi	Manager- Quality Control,	Industry Expert	S.V.Chem Intermediate Private Limited, Alathur, Thiruporur, Chengalpattu Dist.	
6	Dr.V.S.Ramakrishna Ganduri	Professor / Biotechnology	BoS coordinator	Paavai Engineering College	
7	Ms.M.Muthumani	Assistant Professor / Biotechnology	Members	Paavai Engineering College	
8	Mr.K.Vignesh	Assistant Professor / Biotechnology			

# PAAVAI ENGINEERING COLLEGE

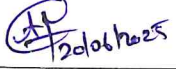
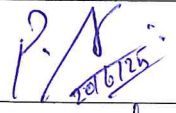
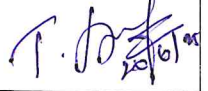


(Autonomous Institution)

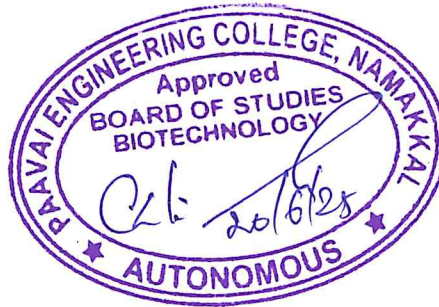
(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.i

9	Mr.A.Muthuselvam	Assistant Professor / Biotechnology			 20/06/2015
10	Mr.P.Saileswaran	Assistant Professor / Biotechnology			 20/6/2015
11	Mrs.T.Saranya	Assistant Professor / Biotechnology			 20/6/15
12	Mr.T.Aravind	Assistant Professor / Biotechnology			 20/6/15
13	Ms.E.Gomathi	Teaching Research Assistant / Biotechnology			 20/06/2015

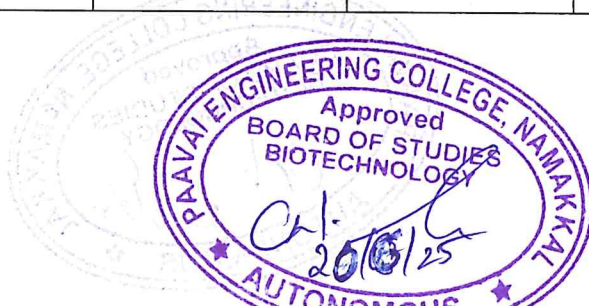


**PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF BIOTECHNOLOGY**  
**MINUTES OF THE MEETING – 5<sup>th</sup> BOARD OF STUDIES**  
**ACADEMIC YEAR 2025-2026**

**Date and Time: 20.06.2025, 1.00 p.m.**

The 5<sup>th</sup> Board of Studies meeting of the Biotechnology Department was held on 20.06.2025 (Friday), at 1.00 p.m. through hybrid mode. The following members were present for the meeting.

S.No	Name	Designation	Position in the Committee	College/ University/ Industry
1.	Dr. C. Nirmala	Professor & Head / BT	Chairman	Paavai Engineering College, Namakkal
2.	Dr. S. Geetha	Assistant Professor	University Nominee	Biotechnology, Anna University, Trichy
3.	Dr. C. Rajasekaran	Professor	Academic Expert	Vellore Institute of Technology, Vellore
4.	Dr. M. Lakshmi Prabha	Assistant Professor (Senior Grade)	Academic Expert	Karunya Institute of Technology and Sciences, Coimbatore
5.	Mr. S. Karthi	Manager - Quality Control	Industry Expert	S. V. Chem Intermediate Private Limited, Chennai
6.	Dr.K.Selvi	Dean Academics	Special Invitee	Paavai Engineering College, Namakkal
7.	Dr.P.Thiyagarajan	ASP / CSE	Special Invitee	Paavai Engineering College, Namakkal
8.	Dr.V.S.Ramakrishna Ganduri	Professor/ BT	BoS Coordinator	Paavai Engineering College, Namakkal
9.	Mr.K.Vignesh	AP/ BT	Member	Paavai Engineering College, Namakkal
10.	Mr.A.Muthuselvam	AP/ BT		
11.	Mr.P.Saileswaran	AP/ BT		



12.	Ms.M.Muthumani	AP/ BT		
13.	Ms.T.Saranya	AP/ BT		
14.	Ms.E.Gomathi	TRA/ BT		

### Agenda

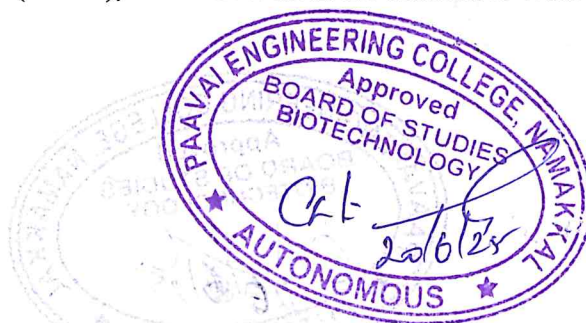
1. The Chairman of Board of Studies welcome the members.
2. Confirmation of the minutes of the 4<sup>th</sup> Board of studies meeting held on 23.12.2024 and action taken report.
3. Presentation of Curriculum and Syllabus for 5<sup>th</sup> to 8<sup>th</sup> semester, Honours and Minor Courses of UG Programme under R2023.
  - i. Programme Credit details
  - ii. Curriculum and its structure
  - iii. Syllabus
  - iv. List of Professional Electives
  - v. List of Value-added courses
  - vi. List of Mandatory courses
  - vii. List of Minor courses
4. Any other items

BoS/BT 10.1: The Chairman of Board of studies welcomed the members.

BoS/BT 10.2: College Vision and Mission, Department Vision and Mission, Programme Outcomes, Programme Educational Outcomes, Programme Specific Outcomes were presented.

BoS/BT 10.3: The minutes of the 4<sup>th</sup> Board of Studies meeting held on 23.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.

BoS/BT 10.4: To consider and approve the Programme credits, Curriculum Structure, Curriculum, Syllabus of 5<sup>th</sup> semester, Verticals, Honours and Minor Courses for B.Tech- Biotechnology to be offered under R2023, Choice Based Credit System (CBCS), with effect from the Academic Year 2025-2026 onwards.



## Suggestion given by the members

### 5<sup>th</sup> Semester Core Courses R2023

- It is proposed to rearrange the experiments in the **Genetic Engineering Laboratory** (BT23505) in a sequential order.
- It is proposed to rearrange the experiments in the **Immunology Laboratory** (BT23506) in a sequential order.

### Vertical II - Medical Biotechnology

For the **Vaccine Technology course** (BT23253)

- Add the topic 'Fermentation system for vaccine production' in Unit III.
- Add the topic 'Conventional delivery method' in Unit IV.
- Add the topic 'Regulatory frame works' in Unit V.

For the **Cancer Biology and Therapeutics course** (BT23254)

- Remove the topics 'Tumor markers and Molecular tools' from Unit I.
- Add the topics 'Cancer detection method and Gene therapies' in Unit V.

For the **Tissue Engineering course** (BT23257)

- Shift the topics "Applications in Medicine, Drug Testing, and Biotechnology" from Unit I to Unit V.

### Vertical III - Agro Biotechnology

For the **Plant Physiology and Abiotic Stress course** (BT23351)

- Add the following textbooks to the recommended reading list: Devlin R.M., Witham F.G., "Plant Physiology", Fourth Edition, New Delhi, India, 1983 and S. Chand & V.K. Jain, "Fundamentals of Plant Physiology", Nineteenth Edition, 2017.



For the **Fungal and Algal Technology course (BT23357)**

- Add recent advances and applications related topics like ‘New Antifungal Agents and Vaccine Research in Clinical Mycology, Lichens as Bio indicators of Urban Pollution and Climate Change’ in Unit IV and Unit V.

#### **Vertical V - Animal Biotechnology**

For the **Fundamentals of Animal Biotechnology course (BT23551)**

- Change the course title from “Fundamentals of Animal Biotechnology” to “Animal Biotechnology.”

For the **Stem Cell Technology course (BT23557)**

- Add the topic ‘Cryopreservation Technique’ in Unit IV.

#### **Vertical VI - Bioregulatory Affairs**

For the **Clinical Trials and Health Care Policies course (BT23651)**

- Add the topic ‘Clinical trials’ in Unit I.

For the **Biotechnological Products and its Validation course (BT23652)**

- Include the topic ‘USFDA’ in Unit I.
- Add the topics ‘Clinical data and Potential role of Nutraceuticals’ in Unit III.

For the **Bio-entrepreneurship and Patent Design course (BT23654)**

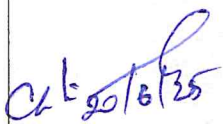

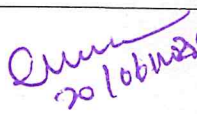

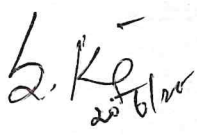
- Add IPR related subtopic in Unit II like ‘Components of financial plan’.
- Add the topics ‘Management of IPR and Types of IPR’ in Unit V.

**RESOLVED AND THE MEMBERS APPROVED THE SAME.**

The above suggestions were provided by the members, and the Curriculum, Syllabus for the 5<sup>th</sup> Semester, Professional Electives (Verticals 2 to 6), Honours and Minor courses for the B.Tech. Biotechnology programme under R2023, to be implemented for students admitted from the academic year 2023–2024 onwards, were approved.



THE MEMBERS PRESENT:

S. No.	Position in the Committee	Name & Designation	Signature
1	Chairman	Dr. C. Nirmala Professor & Head, Biotechnology Paavai Engineering College, Namakkal	 20/6/25
2	University Nominee	Dr. S. Geetha Assistant Professor, Biotechnology Anna University, Trichy	 20/6/2025
3	Academic Expert	Dr. C. Rajasekaran Professor, Biotechnology Vellore Institute of Technology, Vellore	 20/6/2025
4	Academic Expert	Dr. M. Lakshmi Prabha Assistant Professor (Senior Grade), Biotechnology Karunya Institute of Technology and Sciences, Coimbatore	 20/6/25
5	Industry Expert	Mr. S. Karthi Manager - Quality Control S. V. Chem Intermediate Private Limited, Chennai	 20/6/25



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

☎ 04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

Date: 24.06.2025


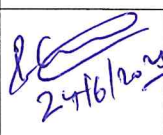

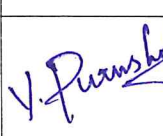
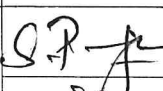
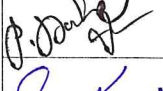
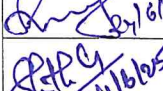
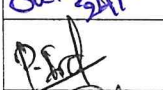


## Minutes of the 12<sup>th</sup> Board of Studies Meeting

Department of Chemical Engineering

Venue: Placement Premium Hall

Date and Time: 24.06.2025, 01.30 PM

Members Present

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.P. Jayakaran	ASP & Head Chemical	Chairman	Paavai Engineering College, Namakkal	
2.	Dr.M. Helen Kalaváthy	ASP, Chemical	University Nominee	Anna University, Chennai	Online
3.	Dr. M. Arivazhagan	Professor & Head Chemical	Academic Expert 1	National Institute of Technology, Trichy	online
4.	Dr.I. Ganeshmoorthy	ASP, Chemical	Academic Expert 2	Vellore Institute of Technology, Vellore	 24/6/2025
5.	Mr.D.S. Senthilkumar	Manager	Industry Expert	Manali Petrochemicals Ltd., Chennai	
6.	Mr.V.Purushothaman	Production Executive	Alumni	Manali Petrochemicals Ltd., Chennai	
7.	Mr.S. Pandiarajan	AP / Chemical	Members	Paavai Engineering College, Namakkal.	
8.	Dr.P. Balaganesh	ASP / Chemical			
9.	Dr.G. Ellamparuthy	AP / Chemical			
10.	Mrs.G. Swathi	AP / Chemical			
11.	Ms.P. Indhumathi	AP / Chemical			
12.	Mrs.P. Preetha	AP / Chemical			

# Paavai Engineering College (Autonomous)

## Department of Chemical Engineering

### Minutes of the 12th Board of Studies (BoS) Meeting

Venue : Premium Hall & Online (Hybrid Mode)

Date : Tuesday, 24<sup>th</sup> June 2025

Time : 1:30 p.m. to 4:30 p.m.

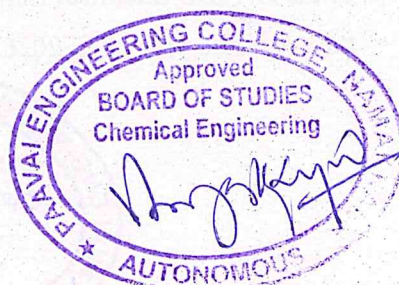
#### Members Present:

S. No.	Name of the Member	Designation	Mode
1	Dr. Jayakaran P. [Chairman]	Head, Department of Chemical Engineering	Offline
2	Dr. Helen Kalavathy M. (University Nominee)	Associate Professor / Chemical Engineering, Anna University	Online
3	Dr. M.Arivazhagan (Academic Expert)	Professor & Head, Department of Chemical Engineering, NIT, Tiruchirapalli	Online
4	Dr. I. Ganeshmoorthy (Academic Expert)	Associate Professor(SG), Department of Chemical Engineering Professor, VIT	Offline
5	Dr. K Selvi - Advisor	Dean Academics	Offline
6	Mr.D.Senthil kumar, (Industry Expert)	Deputy General Manager, Manali Petrochemicals Ltd., Chennai	Offline
7	Mr.V.Purusothaman, (Alumni)	Production Executive, Manali Petrochemicals Ltd., Chennai	Offline
8	Chemical Engineering Faculty members	Observer	Offline

#### Agenda:

1. Welcome Address
2. Presentation of the Vision and Mission of the Institution and Department
3. Presentation of PEOs, POs, and PSOs of B. Tech. Chemical Engineering Program
4. Confirmation of the Minutes of the 11<sup>th</sup> BoS Meeting held on 27th December 2024 and Action Taken Report
5. Approval of Curriculum, Credit Structure, and Syllabus for
  - o Few 3rd Semester Courses under Regulation 2023
  - o Verticals IV, V, and VI curriculum and syllabus
  - o Minor Subjects curriculum and syllabus
6. Amendments if any

#### Proceedings:



## **Proceedings:**

### **BoS Chemical 12.1 – Welcome Address**

The Chairman welcomed all the members of the Board of Studies to the 12th BoS meeting. He briefly introduced the agenda and highlighted the significance of the curriculum revision in alignment with Regulation 2023.

### **BoS Chemical 12.2 – Vision and Mission**

The **Vision and Mission** statements of the Institution and the Department were presented. After review, the members unanimously **approved** them.

### **BoS Chemical 12.3 – PEOs, POs, and PSOs of UG Program**

The **Program Educational Objectives (PEOs), Program Outcomes (POs), and Program Specific Outcomes (PSOs)** of the UG Chemical Engineering program were discussed and **approved** by the BoS.

### **BoS Chemical 12.4 – Confirmation of Previous BoS Minutes**

The minutes of the **11<sup>th</sup> BoS Meeting held on 27th December 2024** were circulated in advance. The members confirmed the minutes and noted that the **Action Taken Report** had addressed the feedback and was found satisfactory.

### **BoS Chemical 12.5 – Approval of Curriculum and Syllabus (Regulation 2023)**

The BoS considered and **approved the amendments, curriculum structure, course outcomes, and syllabi** for the following:

- **Selected 3<sup>rd</sup> Semester subjects and all 5<sup>th</sup> Semester subjects** of B.Tech. Chemical Engineering
- **Verticals IV, V, and VI**
- **Minor Subjects** to be offered from the academic year **2024–2025 onwards**
- This is to formally notify the following amendments made to the **III Semester syllabus** of the B.Tech. Chemical Engineering at **Paavai Engineering College**, effective from the academic year 2025-2026.



• **Amendments:**

Sem / Year	Existing	Proposed
III/II	CH23301 Physical Chemistry (Theory)	CM23305 Chemical Process Industries I
III/II	CH23302 Physical Chemistry Laboratory	CM23307 Process Technology Laboratory
III/II	CM 23303 Thermal Engineering (Theory cum Lab)	CM23306 Engineering Thermodynamics (Theory cum Lab)

**Suggestions Incorporated:**

- Several **subject titles** and **course outcomes** across verticals were revised as per member suggestions.
- Textbooks and reference books were **updated and aligned** with revised content.
- The **entire syllabus was scrutinized**, and necessary **changes were incorporated**.

The edited course outcomes and revised syllabi were attached for reference and ratified by the BoS.

**Conclusion:**

The meeting concluded with appreciation for the constructive inputs from all members. The Chairman assured that all approved changes will be implemented in the upcoming academic session.

Position in the committee	Chairman	University Nominee	Academic Expert	Academic Expert	Industry Expert	Alumni
Name & Designation	Dr. Jayakaran P., Associate Professor & Head, Department of Chemical Engineering	Dr. Helen Kalavathy M. Associate Professor / Chemical Engineering	Dr. M. Arivazhagan Professor & Head, Department of Chemical Engineering	Dr. I. Ganeshmoorthy Associate Professor (SG), Department of Chemical Engineering	Mr. D. Senthil Kumar, Deputy General Manager, Manali Petrochemicals Ltd., Chennai	Mr. V. Purusothaman, Production Executive, Manali Petrochemicals Ltd., Chennai
Signature						

**Chairman, BoS**  
**Department of Chemical Engineering**  
**Paavai Engineering College (Autonomous)**  
**Pachal**

**Head of the Department**  
**Department of Chemical Engineering,**  
**Paavai Engineering College,**  
**NH-7, Pachal Post, Namakkal-637 018.**

# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.

Date: 20.06.2025

## Minutes of the 9<sup>th</sup> Board of Studies Meeting

Department of Food Technology

Venue: GD Hall

Date and Time: 20.06.2025 / 10.30 AM

Members Present

S.No.	Name of the Member	Designation	Position in the Committee	College / University / Industry	Signature
1	Dr.S.Kailash	Head in-charge / Food Tech	Chairman	Paavai Engineering College, Namakkal	
2	Dr.R.Brindha	Associate Professor (Sr. Grade) / Department of Biotechnology	University Nominee	UCE – BIT Campus Anna University, Tiruchirappalli	 20/6/25
3	Dr. Reya Issac	Associate Professor / Department of Biotechnology	Academic Expert 1	Karunya Institute of Technology, Coimbatore.	
4	Dr.R.Parimalavalli	Associate Professor / Department of Food Science and Nutrition.	Academic Expert 2	Periyar University, Salem.	
5	Mr. M. Tamilselvan	Sr. Executive-HR	Industry Expert	Hindustan Food Limited, Coimbatore	
6	Ms. A. Nandhini	Vendor Quality Assurance Trainee	Alumni	Jubilant Foodworks Limited, Bengaluru.	
7	Mr.P. Elanchezhian	AP / Food Technology	Members	Paavai Engineering College, Namakkal	
8	Mr. M.D.S.Rajaruban	AP / Food Technology			
9	Mr.S.Gowtham Kumar	AP / Food Technology			

# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.

10	Mr. K. Naveen Kanth	AP / Food Technology			<i>K. Naveen Kanth</i>
11	Ms. D. Kanishka	AP / Food Technology			<i>D. Kanishka</i>
12	Ms. S. Madhumitha	AP / Food Technology			<i>S. Madhumitha</i>
13	Mr.S. Praveen Kumar	AP / Food Technology			<i>S. Praveen Kumar</i>
13	Ms. S. Sivasakthi	TRA / Food Technology			<i>S. Sivasakthi</i>

PAAVAI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF FOOD TECHNOLOGY

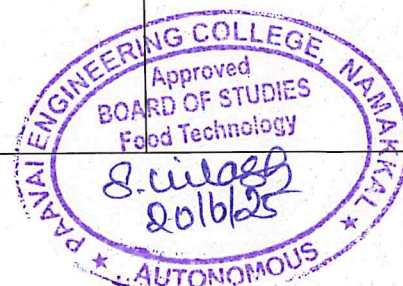
**MINUTES OF THE 9<sup>th</sup> BOARD OF STUDIES MEETING**

Venue: GD Hall, Temple Tower, PEC

Date & Time: 20.06.2025, 10.30AM

The 9<sup>th</sup> Board of studies meeting of the Department of Food Technology was held on 20.06.2025 (Friday), at 10.30AM in GD Hall, Temple Tower, Paavai Engineering College, Pachal. The following members were present in the meeting.

S. No	Name	Designation	Position in the Committee	College / University / Industry
1	Dr. S. Kailash	Professor & Head / Food Technology	Chairman	Paavai Engineering College, Namakkal.
2	Dr. R. Brindha	Assistant Professor (Sr. Gr.) / Biotechnology	University Nominee	Anna University, Trichy.
3	Dr. Reya Issac	Associate Professor/ Biotechnology	Academic Expert 1	Karunya University Coimbatore.
4	Dr. R. Parimalavalli	Associate Professor/ Department of Food Science, Technology and Nutrition	Academic Expert 2	Periyar University, Salem
5	Mr. M. Tamilselvan	Sr. Executive – HR.	Industry Expert	Hindustan Foods Limited, Coimbatore
6	Ms. A. Nandhini	Vendor Quality Assurance Trainee	Alumni	Jubilant Food Works Limited, Bengaluru
7	Mr. M.D.S. Rajaruban	AP/FT	Members	Paavai Engineering College, Namakkal.
8	Mr. S. Gowtham Kumar	AP/FT		
9	Mr. P. Elanchezhian	AP/FT		
10	Mr. K. Naveen Kanth	AP/FT		
11	Ms. D. Kanishka	AP/FT		
12	Mr. S. Praveenkumar	AP/FT		
13	Ms. S. Madhumitha	AP/FT		
14	Ms. S. Sivasakthi	TRA/FT		



## AGENDA

- The Chairman, Board of Studies welcomed the members.
- Confirmation of the minutes of the 9<sup>th</sup> Board of studies meeting held on 20.06.2025 and action taken report.
- Presentation of Curriculum and syllabus of 5<sup>th</sup> semester and Professional Electives (Verticals 4, 5 and 6) of B. Tech Food Technology Programme under Regulation 2023.
  - Stake Holder Feed Back
  - Syllabus Review Committee (SRC)
  - Department Advisory Committee (DAC)
  - Curriculum and syllabus of 5th semester and Professional Electives (Verticals-4,5,6) of UG Programme under R2023
  - Examination Patterns
  - NPTEL Course
  - Fast track
  - Any other items proposed as agenda, related to the Board of studies.

**BoS / Food 9.1** : The Board of studies Chairman welcomed the members.

**BoS / Food 9.2** : The minutes of the 9<sup>th</sup> Board of Studies meeting held on 20.06.2025 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.

**BoS / Food 9.3** : To consider & approve the Curriculum, Curriculum Structure & Syllabi of Vertical 4, 5 and 6 for B.Tech. – Food Technology programme (CBCS) to be offered under R-2023 with effect from the Academic Year 2023-2027 onwards.

### Suggestions given by the members

#### 1. FT23501 – Dairy Technology

- In Unit 3 – The title AI should be removed.
- In Unit 4 – Whey product, emerging products and fortified milk products should be included. The construction details changed to processing details or methods.

#### 2. FT23502 – Food Process Engineering



- In Unit 1 - Water activity and its importance, Water sorption Isotherms, grading methods need to be include.
  - In Unit 2 – The drying kinetics, curve, characteristics of food quality need to be include.
  - In Unit 3 – Supplemental process and Extrusion topics need to be removed.
3. **FT23503 – Thermodynamics for Food Technology**
- In Unit 1 - The Law of conservation of energy, specific heat, thermal capacity and water equivalent should be included.
4. **FT23505 – Dairy Technology Laboratory**
- The process of cheese, panner, whey products experiment must be included.
5. **FT23453 – Dietetics – I**
- In Unit 4 – Alcohol and Diabetes case studies must be included.
6. **FT23454 – Dietetics – II**
- In Unit 5 – Role of food in cancer and case studies need to include.
7. **FT23454 – AI for Food Technologist**
- In Unit 5 - Role of AI in shelf - life prediction, AI in nano sensors must include.
8. **FT23552 – Beverage Technology**
- In Unit 2- Non-Alcoholic beverage and their processing must be included.
  - In Unit 3 - Vegetable based beverages, Cereal based beverages, Indigenous beverages need to be added.
  - In Unit 5 - FSSAI, CODEX, FDA, EU regulation needs to be added.
9. **FT23553 – Emerging Food Processing Techniques**
- In Unit 1 - High Hydrostatic pressure processing of cereals and pulses and high-pressure CO<sub>2</sub> processing of foods need to be added.
  - In Unit 5 – Cold plasma method for decontamination has to be included.
10. **FT23651 – Introduction to Food Safety Analysis and Quality Risk Management**
- In Unit 2 – Non Thermal Technology and advance techniques need to be added.
  - In Unit 5 - World trade issues for food safety, FAO or WHO Food Standards Program need to include.

**Minor Courses:**


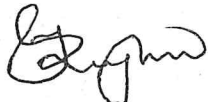



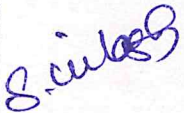
- Nutrients Chemistry subject change to Basics of Food Science.



**3. CO & PO Mapping:**

- Correct all the CO, PO Mapping and levels in all the courses.

**RESOLVED AND APPROVED THE SAME.**

Position in the committee	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert	Alumni	Chairman
Name & Designation	Dr. R. Brindha Assistant Professor (Sr. Gr.)/ Biotechnology	Dr. Reya Issac Associate Professor/ Department of Biotechnology	Dr. R. Parimalavalli Associate Professor/ Department of Food Science, Technology and Nutrition	Mr. M. Tamilselvan Sr. Executive – HR.	Ms. A. Nandhini Vendor Quality Assurance Trainee	Dr. S. Kailash Professor & Head /Food Technology
Signature						



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

Date: 05.07.2025

## DEPARTMENT OF INFORMATION TECHNOLOGY

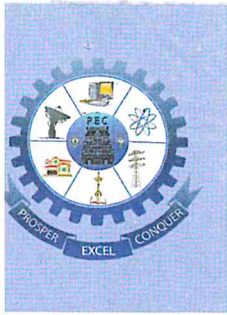
### Minutes of 12<sup>th</sup> Board of Studies Meeting

Venue: Placement Conference Hall

Date and Time: 05.07.2025, 10.30 am

#### Members Present

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.B.Venkatesan	HOD & Associate Professor / IT	Chairman	Paavai Engineering College	
2.	Dr.K.Sathya Priya	Professor /CSE	University Nominee	PSG College of Technology, Coimbatore	
3.	Dr.P.Karthikeyan	Associate Professor / CSE	Academic Expert 1	RV University, Bangalore	
4.	Dr.S.SriVidhya	Professor & Head / ISE	Academic Expert 2	BNM Institute of Technology, Bangalore.	
5.	Mr.D.Saravanan	Software Engineer III	Industry Expert	Walmart Global tech, Bangalore.	
6.	Mr. G.Arul Selvam	Software Developer	Alumni	Vikilead IT Solution, Chennai.	- AB -
7.	Dr.K.Selvi	Dean Academics/ Professor / IT	Member	Paavai Engineering College	
8.	Dr.G.Madasamy Raja	Professor/IT			
9.	Dr.P.Muthusamy	Professor/IT			
10.	Dr.P.Purusothaman	ASP/IT			
11.	Mrs.M.Pushpalatha	ASP/IT			
12.	Dr.S.Saravanakumar	ASP/IT			
13.	Mr.S.Rajesh	ASP/IT			
14.	Mrs.B.Deepa	AP/IT			



# PAAVAI ENGINEERING COLLEGE


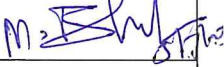


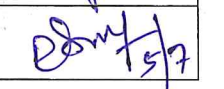
(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

☎ 04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: <http://pec.paavai.edu.in>

15.	Mrs.M.Saranya	AP/IT	Member	Paavai Engineering College	
16.	Mrs.M.Babylatha	AP/IT			
17.	Mrs.P.Anitha	AP/IT			
18.	Mr.V.Saravanabhavan	AP/IT			
19.	Mrs.R.Sangeetha	AP/IT			

## Agenda

- **Welcome Address**
- **Vision and mission of Institution and Department.**
- **PEOs, POs and PSOs of the Programme.**
- **Confirmation of the minutes of the 11<sup>th</sup> Board of studies meeting held on 27.12.2024 and action taken report.**
- **To consider & approve the Curriculum and Syllabus of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree of B.Tech. Information Technology Programme under Regulations 2023.**
  - Curriculum, Credits and its structure
  - 5<sup>th</sup> Semester Syllabus
  - List of Professional Electives (Verticals IV, V and VI) and Minor Degree.
- **To discuss and approve the syllabus for Robotics and Automation department-Seven semester (Professional Elective) under Regulations 2019 for UG.**
- **To discuss and approve NPTEL Course & Professional Elective Exemption under Regulations 2019.**
- **To discuss and approve fast track mode for eligible students.**
- **To discuss and approve Assessment Weightage.**

### **Minutes of the BoS Meeting**

**BoS / IT 12.1** : The Board of studies Chairman welcomed the members.

**BoS / IT 12.2** : Vision and Mission of Institution and Department were described.

**APPROVED THE SAME.**

**BoS / IT 12.3** : PEOs, POs and PSOs of the Programme were described.

**APPROVED THE SAME.**

**BoS / IT 12.4** : The minutes of the 11<sup>th</sup> Board of Studies meeting held on 27.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation.

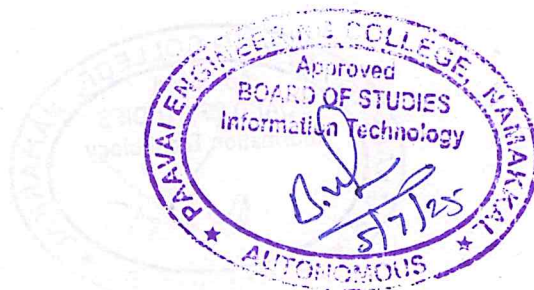
**APPROVED THE SAME.**

**BoS / IT 12.5** : To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree for B.Tech. Information Technology Programme (CBCS) to be offered under Regulations 2023 with effect from the Academic Year 2025-2026 onwards.

### **Suggestions given by the members regarding UG syllabus:**

#### **Semester – V**

1. **Theory of Computation**
  - Latest Text book need to be included



2. **Artificial Intelligence**
  - Replace the syllabus with Artificial Intelligence and Machine Learning.
3. **Full Stack Development**
  - Introduction to Git and GitHub concepts need to include in unit 3.
  - Introduction to Docker for Web Applications need to include in unit 5.
4. **Software Engineering**
  - Contents of Agile and DevOps need to include in unit 1.
5. **Artificial Intelligence and Data Science Laboratory**
  - Replace the syllabus with Artificial Intelligence and Machine Learning lab.

**Vertical V(Emerging Technologies)**

1. **3D Printing and Design**
  - Course can be moved to Value added. Replace the course with Industrial IOT course.

**Vertical – VI (Artificial Intelligence and Machine Learning)**

1. **Soft Computing**
  - Course can be removed. Replace the course with Agentic AI and Prompt Engineering

**Professional Elective Exemption with NPTEL Course:**

S.NO	Professional Elective-IV	NPTEL Course
1.	Fundamentals of Blockchain Technologies.	Blockchain and its Applications


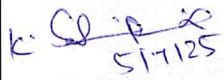
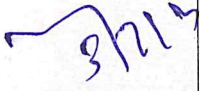

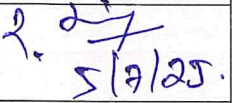
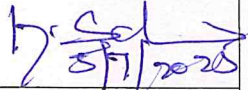



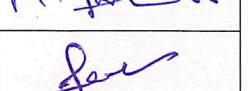
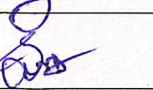
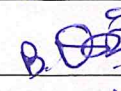
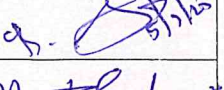
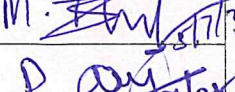

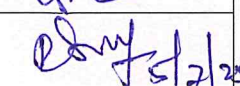


**RESOLVED AND APPROVED THE SAME.**

- BoS / IT 12.6** : Discussed and got approved about Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI), and Minor Degree and the syllabus for Robotics and Automation department -7<sup>th</sup> semester (Professional Elective) under Regulations 2019 for UG .
- BoS / IT 12.7** : Discussed and got approved about NPTEL Course & Professional Elective (Regulations 2019) Exemption.
- BoS / IT 12.8** : Discussed and got approved about fast track mode for eligible students.
- BoS / IT 12.9** : Discussed and got approved about Assessment Weightage.

The above suggestions were given by the members and approved the Curriculum Structure, Syllabi & Course Outcomes of 5<sup>th</sup> semester, Professional Electives (Verticals IV, V and VI) and Minor Degree for UG under R2023 for the students admitted in the year 2023-2024 and NPTEL Course & Professional Elective Exemption and panel of examiners.



### Committee Members

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Dr.B.Venkatesan	HOD & Associate Professor / IT	Chairman	Paavai Engineering College	
2.	Dr.K.Sathya Priya	Professor /CSE	University Nominee	PSG College of Technology,Coimbatore	
3.	Dr.P.Karthikeyan	Associate Professor / CSE	Academic Expert 1	RV University, Bangalore	
4.	Dr.S.SriVidhya	Professor & Head / ISE	Academic Expert 2	BNM Institute of Technology, Bangalore.	
5.	Mr.D.Saravanan	Software Engineer III	Industry Expert	Walmart Global tech, Bangalore.	
6.	Mr.G.Arul Selvam	Software Developer	Alumni	Vikilead IT Solution, Chennai.	- AB -
7.	Dr.K.Selvi	Dean Academics/ Professor / IT	Member	Paavai Engineering College	
8.	Dr.G.Madasamy Raja	Professor/IT			
9.	Dr.P.Muthusamy	Professor/IT			
10.	Dr.P.Purusothaman	ASP/IT			
11.	Mrs.M.Pushpalatha	ASP/IT			
12.	Dr.S.Saravanakumar	ASP/IT			
13.	Mr.S.Rajesh	ASP/IT			
14.	Mrs.B.Deepa	AP/IT			
15.	Mrs.M.Saranya	AP/IT			
16.	Mrs.M.Babylatha	AP/IT			
17.	Mrs.P.Anitha	AP/IT			
18.	Mr.V.Saravanabhavan	AP/IT			
19.	Mrs.R.Sangeetha	AP/IT			



**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY**

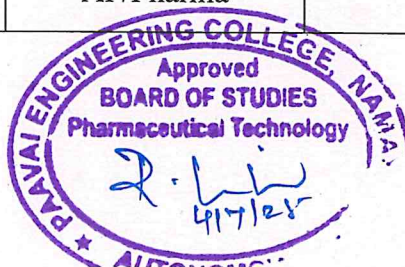
**MINUTES OF THE 9<sup>th</sup> BOARD OF STUDIES MEETING**

**Venu: Placement GD Hall**

**Date & Time: 04.07.2025, 10.00AM**

The 9<sup>th</sup> Board of studies meeting of the Department of Pharmaceutical Technology was held on 04.07.2025 (Friday), at 10.00 am in Placement GD Hall, Temple Tower Building, Paavai Engineering College, Pachal. The following members were present in the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr. R. Praveen Cumar	Professor & Head / Pharmaceutical Technology	Chairman	Paavai Engineering College, Namakkal.
2.	Dr. S. Latha	Associate Professor / Pharmaceutical Technology	University Nominee	Anna University, Trichy.
3.	Dr. Krupakar Parthasarathy	Associate Professor & Scientist –E /CDDD	Academic Expert 1	Sathyabama Institute of Science and Technology, Chennai.
4.	Dr. M. Swamivelmanickam	Associate Professor, Department of Pharmacy	Academic Expert 2	Annamalai University
5.	Dr. Suresh Govindan	Research Head	Industry Expert	AVN Ayurveda Formulations Pvt. Ltd, Madurai
6.	Mr. J. Kishore	Clinical Data Coordinator II	Alumni	ICON Clinical Research India Pvt.Ltd, Chennai
7.	Dr. M. Masilamani Selvam	Prof/Pharma	Members	Paavai Engineering College, Namakkal.
8.	Dr. S. Parathasarathi	ASP/Pharma		
9.	Dr. H. Harikrishnan	ASP/Pharma		
10.	Mr. M.G. Karthih	AP/Pharma		
11.	Mr. G. Adaikala Selvan	AP/Pharma		
12.	Ms. S. Ilakya	AP/Pharma		



## AGENDA

- The Chairman, Board of Studies welcomed the members.
- Confirmation of the minutes of the 8<sup>th</sup> Board of studies meeting held on 27.12.2024 and action taken report.
- Presentation of Curriculum and Syllabus of 5<sup>th</sup> semester and vertical 4,5,6 of B. Tech Pharmaceutical Technology Programme under Regulations 2023.
  - Curriculum
  - Syllabus
  - List of Professional Electives
  - List of Open Electives
  - List of Value added courses
  - List of Honours and Minor courses
  - Amendments (if any)
  - Programme Credit details
- Any other items.

<b>BoS / Pharma 9.1</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / Pharma 9.2</b>	:	The minutes of the 8 <sup>th</sup> Board of Studies meeting held on 27.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.
<b>BoS / Pharma 9.3</b>	:	To consider & approve the Curriculum, Curriculum Structure & Syllabi of V semester for B.Tech. – Pharmaceutical Technology programme (CBCS) and vertical 4,5,6 courses, Honours, Honours and Specialization and Minor courses to be offered under R-2023 with effect from the Academic Year 2025-2026 onwards.

### Suggestions given by the members

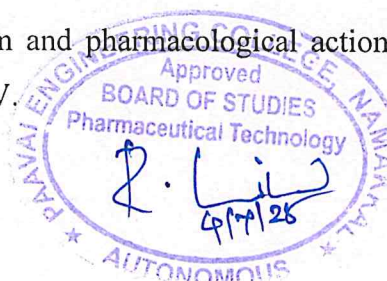
#### V Semester

#### 1. PT23502 PHARMACEUTICAL FERMENTATION TECHNOLOGY

- Trouble shooting in fermentation topic have to added in the first Unit.

#### 2. PT23504 PHARMACOLOGY

- Title of the course shall be changed to Pharmacology and Toxicology.
- Routes of administration, different types of drug interactions are to be added in the Unit I.
- Mode of action- Mechanism and pharmacological action has to be added as a sub heading for Unit II, III, IV, V.



- Drugs used in heart failure has to be removed. Agents used in cardiac arrhythmias has to be replaced by Agents used in cardiac arrhythmias. Diuretic agents can be mentioned as Diuretics. Three examples of drugs for each category.
- Drugs acting on Endocrine system can be shifted to Unit V. Unit V title can be replaced as Drugs acting on endocrine system and chemotherapeutic agents.
- Traditional medicines and toxicology topics can be added in fifth Unit.
- Standard Textbooks can be added in Textbook category.

### 3. PT23505 MEDICINAL CHEMISTRY

- Title of Unit II, III, IV, V can be changed to chemotherapeutic agents, Pharmacodynamic agents and structure- activity relationship respectively.
- Each drug should be correlate with the drugs in the Pharmacology Course. Minimum three drugs should be added, synthesis and structure, mode of action can be added.
- From Unit V, some of the topics to be removed. Also, title have to be changed. Accordingly, topics to be added in the course for Unit V.

### 4. PT23507 Pharmacological Assay Laboratory

- Title of the course has to be changed as Pharmacology Laboratory.
- Experiment 5 and 8 has to be removed. Some experiments related to toxicity, LD 50, ID 50 has to be added. Two- three experiments can be incorporated in DPPH assay.
- Reference and text book should be added and web links for online demonstration can be incorporated.

### 5. PT23453 Vaccinology

- Title has to be changed to Fundamentals of Vaccine Technology

### 6. PT23455 Regenerative Medicine

- 3D Bioprinting shall be added in the Unit II.

### 7. PT23457 Precision Medicine

- Study, design for analysis, analytical issues shall be removed from Unit II

### 8. PT23553 Qulaity Assurance in Pharmaceutical Industries

- Add cGMP topic in Unit I

### 9. PT23555 Regulatory Requirements in Pharmaceutical Industries

- In Unit V, provide real time case studies, also provide examples such as tablets and capsules.

### 10. PT23556 Quality Management Systems in Pharma Sector

- Title has to be changed to Quality Management systems in Pharmaceutical Sector.
- Add cGMP in Unit II.



**11. PT23652 Pharmaceutical Supply Chain Management**

➤ In Unit III, change pharma supply chain to pharmaceutical supply chain.

**12. PT23656 Regulatory issues in Pharmaceutical Industry**

➤ Add pharmaceutical data instead of pharma data in Unit V.

**13. BP23005 Pharmaceutical Process design**

➤ Units III, IV, V to be redesigned/ remodified. Scale up and process validation topics shall be removed from Unit II. Title shall be modified. Introduction to synthesis and purification title has to be given in Unit V. Provide Introduction title to all Unit titles. Simplify the overall course units.

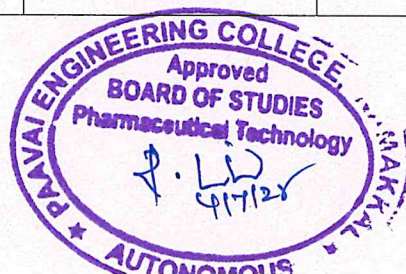
**14. BP23006 Biological Evaluation of Drugs**

➤ Simplify the Units. Name the special toxicity test specifically. Remove the guideline for toxicity studies.

<b>BoS / Pharma 9.4</b>	:	Suggested to Change Minor name from Biopharmaceuticals to Biopharmaceutics.
<b>BoS / Pharma 9.5</b>	:	Discussed and got approved about re-admitted students for additional course. Nil for the Academic Year – (2025-2026)
<b>BoS / Pharma 9.6</b>	:	Discussed and got approved about fast-track mode for eligible students.
<b>BoS / Pharma 9.7</b>	:	List of Value-Added Courses and syllabus were discussed.
<b>BoS / Pharma 9.8</b>	:	Discussed and got approved about completing NPTEL courses equivalent to the elective subjects.

**RESOLVED AND APPROVED THE SAME.**

Position in the committee	University Nominee	Academic Expert 1	Academic Expert 2	Industry Expert	Alumni	Chairman
<b>Name &amp; Designation</b>	Dr. S. Latha Associate Professor / Pharmaceutical Technology	Dr. Krupakar Parthasarathy  Associate Professor/CDD D	Dr. M. Swamivel Manickam Associate Professor/ Department of Pharmacy	Dr. Suresh Govindan Research Head	Mr. J. Kishore Clinical Data Coordinator II	Dr. R. Praveen Cumar Professor & Head /Pharmaceutical Technology
<b>Signature</b>	 4/7/25	 4/7/25	 04/07/25	 04/07/25	 04/07/25	 04/07/25



**PAAVAI ENGINEERING COLLEGE**  
**(Autonomous)**

**Department of Science and Humanities**

**Minutes of 12<sup>th</sup> Board of Studies Meeting**

**Venue: Hybrid Mode**

**Date and Time: 04.07.2025, 11.00 a.m.**

The 12<sup>th</sup> Board of studies meeting of Science and Humanities was held on 04.07.2025, at 11.00 am through Hybrid mode, Paavai Engineering College, Pachal. The following members were present in the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry
1.	Dr.R.Shanthi	Professor & HOD / English	Chairman	Paavai Engineering College
2.	Dr.K.Sivakumaran	Professor / Physics	University Nominee	PSG College of Technology, Coimbatore
3.	Dr.G.Murugasundaramoorthy	Professor / Maths	Academic Expert	Vellore Institute of Technology, Vellore
4.	Dr.S.Sasikumar	Professor / Chemistry	Academic Expert	Vellore Institute of Technology, Vellore
5.	Dr. J. Michael Raj	Assistant Professor/English	Academic Expert	SRM Institute of Science and Technology, Kattankulathur
6.	Dr.K.Sundaramoorthy	HOD / IQAC	Special Invitee	Paavai Engineering College
7.	Dr.R.Thamaraiselvan	Head/Placement and Training	Special Invitee	Paavai Engineering College
8.	Dr.M.Sathish Kumar	HOD & Professor/Maths	Member	Paavai Engineering College
9.	Dr.G.Raja	Professor & HOD / Chemistry	Member	Paavai Engineering College
10.	Dr.T. Krishnakumar	Professor & HOD / Physics	Member	Paavai Engineering College
11.	Mrs.S.Kavitha	ASP / Physics	Member	Paavai Engineering College
12.	Mrs.R.Pradeepa	ASP/Maths	Member	Paavai Engineering College
13.	Dr.N.Geetha	ASP/ Maths	Member	Paavai Engineering College

## Agenda

- Welcome Address
- Vision and mission of Institution and Department.
- To consider & approve the Syllabus of 5<sup>th</sup> semester course titled "Professional Development" under the Regulations 2023 for UG.

### Minutes of the BoS Meeting

- The Board of studies Chairman welcomed the members.
- Vision and mission of Institution and Department were described.
- To consider & approve the Syllabus of 5<sup>th</sup> semester course titled "Professional Development" under the Regulations 2023 for UG.
- Approved the same.

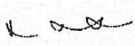

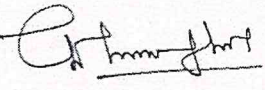
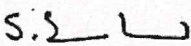
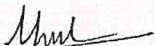
### Suggestions given by the members regarding syllabus:

#### EE23502 Professional Development III

- Update the latest editions of the textbooks as follows
  1. Agarwal, R.S." A modern approach to Verbal & Non Verbal Reasoning", S Chand & Company Ltd, New Delhi. 2024.
  2. Agarwal, R.S. "Objective General English", S Chand & Company Ltd.2022.

### **RESOLVED AND APPROVED THE SAME**

The above suggestions were given by the members and approved the 4<sup>th</sup> semester syllabi for UG under R2023 for the students admitted in the year 2023-2024, amendment and panel of examiners.

Position in the committee	Chairman	University Nominee	Academic Expert-Maths	Academic Expert-Chemistry	Academic Expert-English
Name and Designation	Dr.R.Shanthi Professor & HOD, English.	Dr.K.Sivakumaran, Professor / Physics, PSG College of Technology, Coimbatore.	Dr.G.Murugasundara moorthy, Professor (HAG) Department of Mathematics, Vellore Institute of Technology, Vellore.	Dr.S.Sasikumar Professor / Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Vellore.	Dr.J. Michael Raj, Department of English and Foreign Languages, SRM Institute of Science and Technology, Kattankulathur.
Signature					



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in


## DEPARTMENT OF MANAGEMENT STUDIES

### Minutes of 11<sup>th</sup> Board of Studies Meeting

Venue: Placement Hall

Date and Time: 24.06.2025, 10.30 a.m.

The 11<sup>th</sup> Board of studies meeting of the Department of Management Studies was held on 24.06.2025 (Tuesday), at 10.30 am in Placement Hall, Temple Tower Building, Paavai Engineering College, Pachal. The following members were present for the meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1.	Mr.R.Bharath	Head-MBA	Chairman	Paavai Engineering College	
2.	Dr.K.R.Mahalaxmi	Assistant Professor, Department of MBA	University Nominee	Anna University BIT Campus, Trichy.	
3.	Dr. Rajesh Mamilla	Professor & Head Finance, Accounts and Economics Division	Academic Expert	Vellore Institute of Technology, Chennai.	
4.	Dr.Premkumar B	Associate Professor, Department of MBA	Academic Expert	SRM University, Chennai.	
5.	Dr.A.Sathya Priya, Associate Director,	Associate Director, Dr.Tiru Clinicles Pvt Ltd	Industry Expert	Dr.Tiru Clinicles Pvt Ltd, Salem	
6.	Mr. Anish K Chacko	Business Dealer	Alumni	Nippon Paint, Namakkal	
7.	Dr.K.Selvi	Dean Academics	Special Invitee	Paavai Engineering College	
8.	Mr.R.Thamaraiselvan	Assistant Professor/ MBA	Members	Paavai Engineering College	

# PAAVAI ENGINEERING COLLEGE


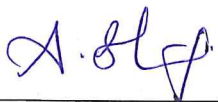

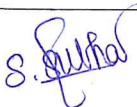
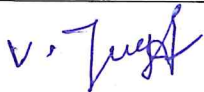
(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.i

9.	Mr.S.Suryakumar	Assistant Professor/ MBA	Members	Paavai Engineering College	
10.	Ms.A.Sheela	Assistant Professor/ MBA			
11.	Mrs.S.Megalatha	Assistant Professor/ MBA			
12.	Mrs.S.Subha	Assistant Professor/ MBA			
13.	Mr.V.Jayaganash	Assistant Professor/ MBA			

➤	Welcome Address
➤	Vision and mission of Institution and Department.
➤	PEOs, POs and PSOs of PG Programme.
➤	Confirmation of the minutes of the 11 <sup>th</sup> Board of studies meeting held on 24.06.2025 and action taken report.
➤	To consider & approve the Curriculum and Syllabus of 5 <sup>th</sup> and 7 <sup>th</sup> semester UG Programme under Regulations 2023. <ul style="list-style-type: none"> <li>• Syllabus</li> </ul>
➤	To consider & approve the Curriculum structure & Syllabi of 5 <sup>th</sup> and 7 <sup>th</sup> semester UG Engineering students to be offered under Regulations 2023.
➤	Any other items relevant to the board of studies.

<b>BoS / MBA 11.1</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / MBA 11.2</b>	:	Vision and mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / MBA 11.3</b>	:	PEOs, POs and PSOs of PG Programme were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / MBA 11.4</b>	:	The minutes of the 10 <sup>th</sup> Board of Studies meeting held on 16.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.
<b>APPROVED THE SAME.</b>		



BoS / MBA 11.5	: To consider & approve the Curriculum, Curriculum Structure, Syllabi & Course Outcomes of V & VII semesters for UG Engineering students to be offered under Regulations 2023 with effect from the Academic Year 2025-2026 onwards.
<b>Suggestions given by the members regarding UG Engineering syllabus:</b>	
1.	<b><u>Semester – V &amp; VII</u></b>
<p><b><u>BA23151-ENTREPRENEURSHIP DEVELOPMENT</u></b></p> <ul style="list-style-type: none"> <li>• Topic “Functions of an Entrepreneur” to be included in Unit II</li> <li>• Renamed Mindset as Entrepreneurial Skill set</li> <li>• The unit III was retitled as Entrepreneurial Development and Structures</li> <li>• Topics like AI in Business Plan Preparation and AI driven Startup Evaluation and Scoring to be included in Unit IV</li> <li>• Topics like Women Entrepreneurial schemes for women (SSI&amp; MSME) and Women entrepreneurship platform in India, AI in formal sector was added in Unit V</li> <li>• Updated version of text book should be included</li> </ul>	
<p><b><u>BA23152-TOTAL QUALITY MANAGEMENT</u></b></p> <ul style="list-style-type: none"> <li>• Topic changed from “Customer Orientation” to “Foundation of TQM” in Unit I</li> <li>• ERP and its role to be included in Unit III</li> <li>• Topics like Quality function Deployment, Poka Yoke and Fool Proofing, AI in Total productive Maintenance to be included in Unit IV</li> <li>• Topics like Six Sigma, AI based quality inspection, Quality awards to be included in Unit V</li> <li>• Updated version of text book should be included</li> </ul>	
<b>RESOLVED AND APPROVED THE SAME.</b>	



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu

☎ 04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: http://pec.paavai.edu.in

Date: 28.06.2025

## MASTER OF COMPUTER APPLICATIONS [MCA]

### Minutes of the 11<sup>th</sup> Board of Studies Meeting

Venue: Placement Hall

Date and Time: 28.06.2025, 10.30 AM

The following members are presented on 11<sup>th</sup> Board of Studies Meeting.

S.No	Name	Designation	Position in the Committee	College / University / Industry	Signature
1	Mr.S.Senthilvelan	HOD/MCA	Chairman	Paavai Engineering College	
2	Dr.M.Sivakumar	Associate Professor / CSE	University Nominee	Thiagarajar College of Engineering, Madurai	
3	Dr.K.Sanathi	Professor / MCA	Academic Expert	Vellore Institute of Technology, Vellore	
4	Dr.K.R.Sekar	Associate Professor / CSE	Academic Expert	Sastra University, Thanjavur	
5	Mr.Venkatesh Rajagopal	Associate Manager	Industry Expert	DXC Technology Bangalore	
6	Mr.P.Balamurugan	Oracle Database Administrator	Alumini	Solugenix, Bengalore	
7	Dr.V.Annapoorani	Prof/MCA	Member	Paavai Engineering College	
8	Mr.C.Rathnakumar	ASP/MCA			
9	Mrs.M.Geetha	ASP/MCA			
10	Mrs.M.Maheswari	AP/MCA			
11	Mrs.R.Deepika	AP/MCA			

## Agenda

➤	<b>Welcome Address</b>
➤	<b>Vision and mission of Institution and Department.</b>
➤	<b>PEOs, POs and PSOs of PG Programme.</b>
➤	<b>Confirmation of the minutes of the 10<sup>th</sup> Board of Studies meeting held on 28.12.2024 and Action Taken Report.</b>
➤	<b>To consider &amp; approve the Curriculum and Syllabus of 1<sup>st</sup>, 2<sup>nd</sup> 3<sup>rd</sup> and 4<sup>th</sup> Semester M.C.A Programme under Regulations 2023.</b> <ul style="list-style-type: none"> <li>• Curriculum, Credits and its structure</li> <li>• List of I, II, III, IV Semester Courses and Syllabus</li> <li>• List of Professional Electives</li> <li>• Amendments</li> </ul>
➤	<b>To consider &amp; approve the Curriculum Structure and Syllabi of I, II, III, IV Semester M.C.A Programme under Regulations 2023.</b>
➤	<b>To discuss and approve Assessment Weightage.</b>
➤	<b>Any other points relevant to the board of studies.</b>

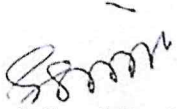
### Minutes of the BoS Meeting

<b>BoS / MCA 10.1</b>	:	The Board of studies Chairman welcomed the members.
<b>BoS / MCA 10.2</b>	:	Vision and mission of Institution and Department were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / MCA 10.3</b>	:	PEOs, POs and PSOs of PG Programme were described.
<b>APPROVED THE SAME.</b>		
<b>BoS / MCA 10.4</b>	:	The minutes of the 10 <sup>th</sup> Board of Studies meeting held on 28.12.2024 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the committee members.
<b>APPROVED THE SAME.</b>		
<b>BoS / MCA 10.5</b>	:	<b>To consider &amp; approve the Curriculum, Curriculum Structure, Syllabi &amp; Course Outcomes of I, II, III and IV semesters for M.C.A to be offered under Regulations 2023 with effect from the Academic Year 2023-2024 onwards.</b>

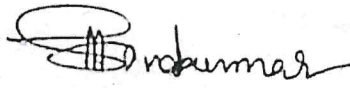
<b>Suggestions given by the members regarding PG syllabus:</b>	
<b><u>Semester –I</u></b>	
<b>CA23101 - Advanced Software Engineering Methodologies</b>	
1.	<ul style="list-style-type: none"> <li>The course title renamed Software Engineering Methodologies instead of Advanced Software Engineering Methodologies</li> </ul>
<b>CA23102 - Advanced Data Structures and Algorithms</b>	
2.	<ul style="list-style-type: none"> <li>The course title renamed Data Structures and Algorithms instead of Advanced Data Structures and Algorithms</li> </ul>
<b>CA23105 - Advanced Data Structures and Algorithms Laboratory</b>	
3.	<ul style="list-style-type: none"> <li>The course title renamed Data Structures and Algorithms Laboratory instead of Advanced Data Structures and Algorithms Laboratory</li> </ul>
<b><u>Semester –II</u></b>	
4.	<b>Professional Elective I</b> <ul style="list-style-type: none"> <li>The course Predictive Analysis has been included instead of course Soft Computing Technologies.</li> </ul>
<b><u>Semester –III</u></b>	
5.	<b>Professional Elective II</b> <ul style="list-style-type: none"> <li>The course Quantum Computing has been included instead of course Organizational Behavior.</li> </ul>
6.	<b>Professional Elective III</b> <ul style="list-style-type: none"> <li>The course Automation Testing has been included instead of course Software Quality and Testing.</li> <li>The course Reinforcement Techniques has been included instead of course Enterprise Recourse Planning.</li> </ul>
7.	<b>Bridge Course</b> <ul style="list-style-type: none"> <li>The course Object Oriented Programming using C++ has been removed</li> </ul>
<b>RESOLVED AND APPROVED THE SAME.</b>	

The above suggestions were given by the members and approved the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Semester Syllabi for MCA under R2023 for the students admitted in the year 2024 – 2025 onwards.

The above suggestions given by the members



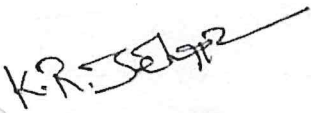
**Mr.S.Senthilvelan**  
Chairman / BoS




**Dr.M.Sivakumar**  
University Nominee



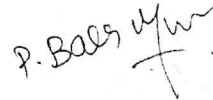
**Dr.K.Santhi**  
Academic Expert



**Dr.K.R.Sekar**  
Academic Expert



**Mr.Venkatesh Rajagopal**  
Industry Expert



**Mr.P.Balamurugan**  
Alumni

