



P.S.R. ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Sevalpatti (P.O), Sivakasi - 626140.
Tamilnadu State











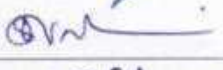








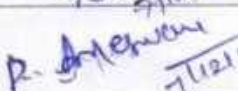


MEETING OF ACADEMIC COUNCIL

MINUTES OF 17th MEETING OF ACADEMIC COUNCIL OF P.S.R. ENGINEERING COLLEGE HELD ON 7th DECEMBER 2024 AT 11:00 AM IN THE BOARD ROOM

Date: 7th December 2024

Members Present

S.No.	Name and Category	Affiliation	Signature
1	Dr. J. S. Senthikumaar Chairman	Principal P.S.R Engineering College	
2	Dr. N. Ramesh Babu University Nominee	Professor, Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli - 620 015	 7/12/2024
3	Dr. V. Ponnusamy University Nominee	Professor, Department of Applied Science and Humanities, Anna University, Chennai - 600 044	 07/12/24
4	Dr. N. B. Balamurugan University Nominee	Professor, Department of ECE, Thiagarajar College of Engineering, Madurai - 625 015	 7/12/24
5	Dr. M. Pallikonda Rajasekaran Member-Academic	Professor, Department of Electronics and Communication Engineering, Kalasalingam Academy of Research and Education, Krishnankoil - 626126	 9/12/24
6	Dr. J. John Member-Academic	Associate Professor and Head of the Department, Government College of Engineering, Tirunelveli-627017	 7/12/24

7	Mr. S. Arun Member- Industry	Director -Corporate Relations Evoria Infotech Pvt Ltd Bangalore	
8	Mr. Guhan Chellachamy Member- Industry	Director, Avarious Technology Solutions Private Limited, Chennai	
9	Dr. P. Ranjith Kumar Member-College	Professor/ECE P.S.R Engineering College	
10	Dr. R. Aruna Member-College	Associate Professor/EEE P.S.R Engineering College	 7/12/24
11	Dr. R. Palanikumar Member-College	Associate Professor/CSE P.S.R Engineering College	 7/12/24
12	Dr. K. Venkadeshwaran Member-College	Assistant Professor/Biotech P.S.R Engineering College	
13	Dr. M. Shahul Hameed	HOD/Civil & Dean (Research)	
14	Dr. P. Pitchipoo	HOD/Mech & IQAC	
15	Dr. K. Valarmathi	HOD/ECE	
16	Dr. A. Ramathilagam	HOD/CSE	
17	Dr. R. Muniraj	HOD/EEE	
18	Dr. J. Babitha Thangamalar	HOD/Biomed	
19	Dr. S. Sabarunisha Begum	HOD/Biotech	 7/12/24
20	Dr. S. Priyadarsini	HOD/AI&DS	 7/12/24
21	Dr. R. Ramani	HOD/IT	
22	Dr. P. Kannan	HOD/MBA	
23	Dr. D. Sriram	HOD/H&S	
24	Dr. R. Kasiraman	Placement Officer	
25	Dr. R. Rajeswari	Controller of Exams	
26	Mrs. P. Lingeswari Member-Secretary	Assistant Professor/ECE	 7/12/24

The Principal and Chairman welcomed the members for the 17th meeting of the Academic Council. He introduced both the external and internal members to the Academic Council. Then he briefed the agenda to be discussed in the meeting after giving a brief introduction about the college for the benefit of new members. He mentioned that the Board of Studies meetings of the departments were conducted on 16.11.2024 & 18.11.2024.

17.01: To confirm the minutes of 16th meeting of the Academic Council held on 08.06.2024

The Principal, chairman of the Academic Council invited the members' comments on the minutes of the 16th meeting of the Academic Council, which was communicated to the members.

Resolved to confirm the minutes of the 16th Meeting of Academic Council held on 08.06.2024 as there were no comments on the minutes of the meeting.

17.02: To review the action taken on the minutes of 16th meeting of the Academic Council

Chairman presented the actions taken on the suggestions made in the 16th meeting of the Academic Council held on 08.06.2024.

ITEMS of 16 th Academic Council Meeting	Resolutions Passed	Compliance /Action Taken
16.5 to 16.4: To approve the recommendation of the Board of Studies of ECE, CSE, IT, EEE, MBA, Biotech, Mech, Biomedical, & Civil Engineering for minor revisions in the syllabus	Resolved to approve the recommendation of the Board of Studies of ECE, CSE, IT, EEE, MBA, Biotech, Mech, Biomedical, & Civil Engineering for minor revisions in the syllabus	Implemented
16.06: Revision of PEOs and PSOs of CSE dept. 16.07: PEOs of AI&DS 16.08: Vison, Mission & PEOs of IT 16.11: Revision of PEOs & PSOs of Mech 16.12: Vision and Mission of Biomedical 16.13: Revision of Vision and Mission of Civil	Resolved to approve the recommendation of the Board of Studies for the revision of PEOs, PSOs, vison and mission of the departments mentioned and approval for the vision and mission of IT and Biomedical Engineering departments	Implemented

16.15: To nominate new academic experts to the Board of Studies for the next term of three years [2024-25 to 2026-27]	Resolved to approve the proposed new members for the Board of Studies for next three years	Implemented
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The council resolved to ratify the action taken as presented.

17.03: Appraisal of Academic Developments during the Year 2024-25 (Odd Sem)

Chairman appraised to the members that the following developments have taken place during the academic year 2024-25 as on date.

- Total students' strength is 2465 (UG:2216, PG: 249)
- No. of Candidates Pursuing Ph.D in our Research Centres is 113
- Number of publications in reputed journals is 146
- Number of Books / Book Chapters published is 22
- Total number of patent grants received: 34
- Total number of funded projects completed is 8, worth of 107.46 Lakhs
- Total number of projects ongoing with grants is 8, worth of 159.29 Lakhs
- No. of students placed through campus recruitment is 278, which is 60.10% of the opted students for the placement as on date. The highest salary package is 12 LPA. No. of companies visited the campus is 41.
- Two numbers of students projects received 'Best Idea Award' in the ideathon event conducted by the SRM Institute of Science and Technology, Chennai. 1. The project 'Agri Tech Revolution: Empowering Farmers with Smart Sensor Solution' by P.Srinithi Kasiammal, P. Angel, and S. Selva Sri Harini, 2. The project 'Smart Irrigation with Precision Farming for IOT' by K.Kesavan, M. Kannan, and R. Krishna Priyan
- Two numbers of students projects received first prize in the hackathon event conducted by the ACIC-Kalasalingam Innovation Foundation, KARE, Srivilliputhur. 1. The project 'Deploying Smart Farms by Remote Sensing' by Varadharajan D, Nagagiri R, Sugash Maharaja N, 2. The project 'Advanced E-Vehicle Power Generation System' by Ashok S,Vinoth Kumar R,Vishakan S
- Four final year projects are selected for a grant of Rs. 7.5K each by the Tamilnadu State Council for Science and Technology under SPS scheme.
- A fulltime research scholar S.Jasmine of ECE department has been selected for a grant of Rs. 3 Lakhs by the Tamilnadu State Council for Science and Technology under Research Funding For Research Scholars (RFRS) scheme

The members noted down the activities of various departments and appreciated the faculty and students for their efforts in achieving excellence.

17.04: To consider the recommendations of the Board of Studies of Electronics and Communication Engineering held on 16.11.2024

Dr. K. Valarmathi, HoD/ECE presented the recommendations of the Board of studies, held on 16.11.2024 for approval of the council.

- Antennas and Wave Propagation: Adding the topics on phased array antennas and their applications.
- Digital Image Processing: Dropping the image restoration contents
- Satellite Communication: Adding the topics on remote ATM and DTH.
- Embedded Systems and IoT: Adding topics on Message Queuing Telemetry Transport, Constrained Application Protocol, IoT data processing and visualization.
- Embedded Systems and IoT laboratory: Adding an experiment on Connecting Devices to ThingSpeak
- CMOS VLSI Design: Adding verification methodologies using Verilog in 5th unit
- Digital Signal Processing Laboratory: Adding of experiments using Python-based DSP libraries like SciPy or NumPy
- Data Communication Networks: Adding basics of software-defined networking (SDN) and network function virtualization (NFV)

The council has resolved to approve the recommendations of the Board of Studies of ECE department.

17.05: To consider the recommendation of the Board of Studies of Computer Science and Engineering held on 16.11.2024

Dr. A. Ramathilagam, HoD/CSE presented the recommendation of the Board of studies for Computer Science and Engineering programme:

Computer Science and Engineering

- C# and .NET Programming: Shifting this course from Sem-V to Vertical-II on Full Stack Development
- Cryptography and Network Security: Adding this course in the place of 'C# and .NET Programming' as a Theory-cum-Practical in Sem-V
- To offer the open electives on Fundamentals of Java, PHP, C Programming, Fundamentals of Artificial Intelligence, Fundamentals of Machine Learning

The council has resolved to approve the above minor revisions in the syllabus and the revised PEOs and PSOs.

17.06: To consider the recommendation of the Board of Studies of Computer Science and Engineering for the programme Artificial Intelligence and Data Science held on 16.11.2024 and the revision of PSOs

Dr. S. Priyadarsini, HoD/AI&DS presented the recommendation of the Board of studies for Artificial Intelligence and Data Science programme:

- Change in the title of the subject “Android Application Development” as “Mobile Application Development”.
- To offer the open electives on Data Analytics using R
- Adding of a subject on ‘Generative AI’ in Artificial Intelligence and Data Science Vertical

Then she presented the proposed Programme Specific Outcomes (PSOs) as below:

PSO#1: Apply mathematical and statistical models along with suitable algorithms to address and solve computational tasks.

PSO#2: Apply the Data Science and Artificial Intelligence techniques to achieve effective insights and decision making to solve real-life problems

PSO#3: Develop software applications and solutions to meet the needs of industry and society

The council has resolved to approve the above minor revisions in the syllabus and the PSOs for the programme Artificial Intelligence and Data Science.

17.07: To consider the recommendation of the Board of Studies of Computer Science and Engineering for the programme Information Technology held on 23.03.2024 and the proposed Vision, Mission and PEOs

Dr. R. Ramani, HoD/IT presented the recommendation of the Board of studies for Information Technology programme:

- Communication Systems; Adding of a topic on Error Control Coding as Unit-V. Replace the word Web Essential by Web Technology in Semester-VI
- Adding of a subject Foundation of Data Science in Data Science vertical
- To offer the open electives on Web Designing, Introduction to Structured Query Language

Then she presented the proposed Programme Specific Outcomes of the programme of Information Technology as below:

PSOs

- PSO#1:** Analyze and apply knowledge of fundamental computer engineering and networking principles to devise substantiated solutions for challenges in the field of computer engineering while adhering to international standards.
- PSO#2:** Develop and implement algorithms and programs in various Information Technology domains, including object-oriented concepts, web design, big data analytics, data security, networking, machine learning, and AI
- PSO#3:** Continuously learn and adopt emerging technologies and concepts in computer engineering and networking to provide effective solutions.

Resolved to approve the minor revisions in the syllabus and the proposed PSOs as per the recommendation of the Board of Studies of Computer Science and Engineering.

17.08: To consider the recommendation of the Board of Studies of Electrical and Electronics held on 16.11.2024

Dr. R.Muniraj, HoD/EEE presented the recommendation of the Board of studies of EEE:

- Smart System Automation (231EEV34): Add the topic on Types of Protocol in Unit 1. Changing the title of Unit-V as Robotics
- VLSI Design (231EEV36): Adding 'Introduction to VHDL' in Unit-V
- Grid integrating Techniques and Challenges (231EEV42): Adding the topic on Challenges in integration of Solar energy in Grid
- Introduction to smart grid and Electric Vehicle (231EEV44): Adding the topic on G2V in Unit-V

Then he presented the proposed revision in the Programme Educational Objectives (PEOs) and Programme Specific Outcomes (PSOs) of the Electrical and Electronics Engineering:

PEOs:

- PEO#1:** Graduate will acquire the knowledge and foundational skills in Electrical and Electronics Engineering to pursue a professional career.
- PEO#2:** Graduates will have the technical competency to solve challenges in higher education and address societal tasks as Entrepreneur and Employer.
- PEO#3:** Graduates will engage in continuous learning through state-of-the-art technologies and participate in professional activities.
- PEO#4:** Graduates will exhibit relevant skills and work as a team in their professions ethically striving towards success.

PSOs:

PSO#1: Apply fundamental knowledge of Electrical, Electronics, and Computer Engineering concepts to analyze and design solutions for complex problems in Power systems and related fields.

PSO#2: Employ suitable methodologies and modern tools to control and automate Industrial Electronic Systems.

PSO#3: Develop project management skills to solve real-time problems by applying Electrical and Electronics Engineering knowledge.

Resolved to approve the minor revisions in the syllabus and the revised PEOs and PSOs as per the recommendation of the Board of Studies of Electrical and Electrical Engineering.

17.09: To consider the recommendation of the Board of Studies of Biotechnology held on 18.11.2024

Dr. S. Sabarunisha Begum, HoD/Biotech presented the recommendation of the Board of studies of Biotechnology:

- Renaming the subject 231BT51-Bioprocess Principles as Bioprocess Engineering
Renaming the subject 231BT61-Bioprocess Engineering as Bioprocess Technology
- Rename the practical subject 231BT57-Basic Bioprocess Laboratory as Bioprocess Engineering Laboratory I and 231BT67-Bioprocess Engineering Laboratory as Bioprocess Engineering Laboratory II.
- 231BT72- Bio-Nanotechnology: Adding of topics on protein based nanotechnology, DNA based nanotechnology and applications of nanotechnology. To be offered as an elective subject
- Biopharmaceutical Technology: to be offered in 7th Semester. Add topics on therapeutic applications of biopharmaceutical products and the case studies on drug delivery systems
- 231BT57-Basic Bioprocess Laboratory: Adding an experiment on modelling of batch culture using MATLAB.
- Vertical-1 and Vertical-4 combined as Bioprocess and Biochemical Engineering

Resolved to approve the recommendation of the Board of Studies of Biotechnology as presented above.

17.10: To consider the recommendation of the Board of Studies of Mechanical Engineering held on 16.11.2024

Dr. P. Pitchpoo, HoD/Mech presented the recommendation of the Board of studies of Mechanical:

- Revised course outcomes in alignment with RBT and Knowledge levels
- Adding the web references for the subjects

Resolved to approve the recommendation of the Board of Studies of Mechanical Engineering.

17.11: To consider the recommendation of the Board of Studies of Biomedical Engineering held on 23.03.2024

Dr. J. Babitha Thangamalar, HoD/Biomedical presented the recommendation of the Board of studies of Biomedical Engineering:

- 231BM52 Diagnostic and Therapeutic Equipment: Adding the topic on Oncology and Ultrasound Probe in Unit-II
- 231BM62 Artificial Intelligence and Machine Learning for Health Care: Adding a topic on Back Propagation in Unit-III
- 231BM67 Machine Learning Practices Laboratory: Adding an experiment related to Back Propagation and Model Predictive Algorithm
- 231BMV11 Artificial Organs and Implants: Adding a topic on Bioprinting in Unit-V
- 231BMV21 Foundation Skills in Integrated Product Development: Change of course title as Product Design and Development.
- 231BMV23 Medical Device Regulations: Adding a topic on Ambulance Regulatory System in Unit-V.
- 231BMV25 Medical Innovation and Entrepreneurship: Adding a topic on Medical Equipment Clearance in Unit-II
- 231BMV35-Brain Computer Interface and Applications: Change of the course title as Brain Computer Interface

Then he presented the proposed revision in PEOs and PSOs of the programme of Biomedical Engineering as below:

PEOs

- PEO#1:** Attain the basic knowledge in biomedical engineering to lead a successful professional career.
- PEO#2:** Assess and resolve the issues related to social values relevant in the field of Biomedical engineering.
- PEO#3:** Engage in lifelong learning by participating in professional activities and carrying out Biomedical research.
- PEO#4:** Acquire essential abilities and interpersonal skills to lead a team with ethics for success.

PSOs

- PSO#1:** To acquire knowledge of the fundamentals of engineering and the basics of biological science.
- PSO#2:** To build diagnostic, therapeutic and life assist systems with ethical standards and ensure patient safety.
- PSO#3:** To apply software expertise to develop algorithms for solving health care related problems

Resolved to approve the recommendation of the Board of Studies of Biomedical Engineering and the PEOs and PSOs as presented above.

17.12: To consider the recommendation of the Board of Studies of Civil Engineering held on 18.11.2024

Dr. M. Shahul Hameed, HoD/Civil presented the recommendation of the Board of studies of Civil:

- 231CE42 Applied Hydraulics: Shifting to Vertical-6
- 231CE45 Irrigation and Hydraulics structures: Shifted to Semester-4
- Prestressed Concrete Structures: Made as a core course
- The courses 231CE43- Highway and Railway Engineering and 231CE58 - Waste Water Analysis Laboratory are made as Theory cum Practical Courses
- New courses added: Reinforced Concrete Structures, Steel Concrete Composite Structures, Professional Practice and Contract Management, Housing Planning and Management, High Speed Rail Engineering

Resolved to approve the recommendation of the Board of Studies of Civil Engineering as presented above.

17.13: To consider the recommendation of the Board of Studies of MBA held on 16.11.2024

Dr. P.Kannan, HoD/MBA presented the recommendation of the Board of studies of MBA:

- Investment Analysis and Portfolio Management (233BAF1): Adding of the topics Book Building Process, Clearing House-Listing of Securities" added in Unit II and "Sharpe's performance Index, Treynor's performance Index in Unit V
- International Business (233BA32): Adding the topics Import Export Process, Documentation & INCOTERMS in Unit-III and "GST in Global Business" in Unit-IV
- Human Resource Analytics (233BAH6): Adding a topic on Workforce Diversity and Development in Unit-V
- Warehouse Management (233BAO6): Adding a topic on Warehouse Audit in Unit-I

Resolved to approve the recommendation of the Board of Studies of MBA as presented above.

17.14: Any Other Matters

Dr. N. Ramesh Babu

- Suggested to involve industry persons to take some topics of the subjects
- The students may be encouraged to take one credit courses for credit scores
- The students may be encouraged to take up NPTEL/Swayam courses for credits
- Faculty members can be encouraged to apply for more number of funded projects for the grants

Dr. M. Pallikonda Rajasekar

- The courses on Entrepreneurship may be offered
- Drone Technology may be introduced
- Encouragement to Case Studies in courses
- Project based learning can be encouraged
- SDG mapping may be introduced for all the courses

The meeting concluded with vote of thanks at 1.30 pm.




Principal & Chairman
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P.S.R.ENGINEERING COLLEGE
SIVAKASI-626 140.