



P.S.R.ENGINEERING COLLEGE

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

Sevalpatti (P.O), Sivakasi - 626140.

Tamilnadu State



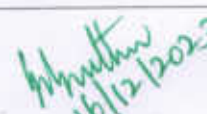





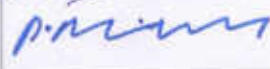
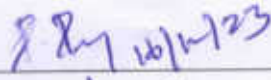


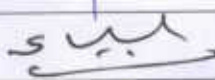
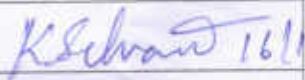



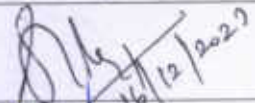




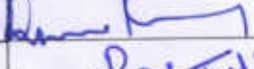
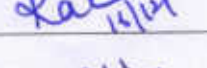
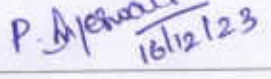
MEETING OF ACADEMIC COUNCIL

MINUTES OF 15th MEETING OF ACADEMIC COUNCIL OF P.S.R.ENGINEERING COLLEGE HELD ON 16th DECEMBER 2023 AT 11:00 AM IN THE BOARD ROOM

Date: 16th December 2023

Members Present

| S.No. | Name and Category | Affiliation | Signature |
|-------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1 | Dr. J. S. Senthikumaar Chairman | Principal P.S.R Engineering College |  16/12/23 |
| 2 | Dr. P. Palanisamy University Nominee | Professor, Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli – 620 015 |  16.12.2023 |
| 3 | Dr. M. Shyamala University Nominee | Professor (Chemistry, GCT, Coimbatore), Tamilnadu Engg Admissions (TNEA), DoTE, Chennai - 600025 | Attended online |
| 4 | Dr. S. Sucha University Nominee | Professor and Dean i/c, University College of Engineering, Dindugal– 624 622. |  16/12/2023 |
| 5 | Dr. S. Rajaram Member-Academic | Professor, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai – 625015 |  16/12/23 |
| 6 | Dr. D. Jebakani Member-Academic | Professor, Department of Mechanical Engg., Government College of Engineering, Tirunelveli-627017 |  16/12/23 |

| | | | |
|----|------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 7 | Mr. P. Thalai Selvam Member- Industry | Deputy Manager - Corporate Sustainability, Innowell Engineering Intl. Pvt Ltd., Chennai | P. Thalaisy |
| 8 | Mrs. B. Siva Sankari Member-Alumni | HR Talent Acquisition, HTC Global Services, Chennai |  |
| 9 | Dr. P. Marichamy Member-College | Professor/ECE & Dean P.S.R Engineering College |  |
| 10 | Dr. P. Pitchipoo Member-College | Professor/Mech& IQAC P.S.R Engineering College |  |
| 11 | Dr. R. Vinoth Member-College | Associate Professor/ECE P.S.R Engineering College |  |
| 12 | Dr. S. Venkatesh Member-College | Assistant Professor/BioTech P.S.R Engineering College |  |
| 13 | Dr. M. Shahul Hameed | HOD/Civil & Dean (Research) |  |
| 14 | Dr. K. Selvarani | HOD/H&S |  |
| 15 | Dr. K. Valarmathi | HOD/ECE |  |
| 16 | Dr. A. Ramathilagam | HOD/CSE |  |
| 17 | Dr. R. Muniraj | HOD/EEE |  |
| 18 | Dr. S. Sabarunisha Begum | HOD/BioTech |  |
| 19 | Dr. P. Kannan | HOD/MBA |  |
| 20 | Dr. H. Kanagasabapathy | HOD/Mech |  |
| 21 | Dr. S. Manikandan | HOD/Biomed |  |
| 22 | Dr. S. Singaravelan | HOD/AI&DS |  |
| 23 | Dr. R. Kasiraman | Placement Officer |  |
| 24 | Dr. R. Rajeswari | Controller of Exams |  |
| 25 | Mrs. P. Lingeswari Member-Secretary | Assistant Professor/ECE |  |

The Principal and Chairman welcomed the members for the 15th 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.

15.01: To confirm the minutes of 14th meeting of the Academic Council held on 30.05.2023

The Principal, chairman of the Academic Council invited the members' comments on the minutes of the 14th meeting of the Academic Council, which was communicated to the members.

Resolved to confirm the minutes of the 14th Meeting of Academic Council held on 30.05.2023 as there were no comments on the minutes of the meeting.

15.02: To review the action taken on the minutes of 14th meeting of the Academic Council

Chairman presented the actions taken on the suggestions made in the 14th meeting of the Academic Council held on 30.05.2023.

| ITEMS of 14 th Academic Council Meeting | Resolutions Passed | Compliance /Action Taken |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| ITEM#3: Curriculum Structure under new Regulation R2023 (both UG & PG) | Resolved to approve the curriculum structure under the new regulation 2023 with the suggestions/ recommendations | Implemented for all the programmes |
| ITEM#4: Curriculum and Syllabus of the programmes under the new Regulation2023 | Resolved to approve the curriculum and syllabi of all the programmes as recommended by the respective Board of Studies | Implemented for all the programmes |

The council resolved to ratify the action taken as presented.

15.03: Appraisal of Academic Developments during the Year 2023-24 Odd Semester

Chairman appraised to the members that the following developments have taken place during the academic year 2023-24 Odd Semester as on date.

- A workshop on IPR was conducted by Dr. M. Kanthababu, Professor of Anna University in the college for the benefit of faculty members, PG students and research scholars on 26.07.2023.
- An International Seminar on "Educational Media Production for e-Learning" was conducted on 20.09.2023 in collaboration with NITTTR, Chennai.
- A FDP on "Instructional Design and Delivery System" by NITTTR Chennai, was conducted in the college from 5.10.2023 to 10.10.2023 for the benefit of new faculty members.

- Graduation Day was held on 9th December 2023 – Dr. N. Chandrasekar, Vice Chancellor of Manonmaniam Sundaranar University, Tirunelveli participated as the chief guest to present the degree certificates to the Graduated students of the year 2023.
- Seven candidates have been admitted to Ph.D programmes of various department in July 2023 session. As on date in total 88 candidates are pursuing Ph.D in the college.
- Two candidates, S. Jeevitha (14.08.2023) and M. Swarna Sudha (03.11.2023) of ECE research center, have completed Ph.D viva-voce and qualified for the degree during the period 2023-24 odd semester.
- A faculty member of the college, V. Selvakumar of CSE department has completed Viva-voce examination on 6.11.2023 and has qualified for Ph.D degree.
- 73 research papers have been published in the reputed journals during the calendar year 2023 as on date. Scopus h-index of the college is 29. Google Scholar h-index is 56. The Total number of citations is 3976 (Scopus) & 14172 (Google Scholar)
- Faculty members have published 6 books/book chapters during the calendar year 2023 as on date.
- Faculty members have filed/published 22 patent applications in the calendar year 2023 as on date.
- Four patents have been awarded to the college during the 2023-24 odd semester: 1). Sustainable Fibre Reinforced Foam Concrete Interlocking Block (Patent No: 437026), Date of Filing: 21.12.2022, Date of Grant: 03.07.2023, 2). Ultrasonic Milk Analyser (Patent Design No: 390401-001), Date of Filing: 16.07.2023, Date of Grant: 12.10.2023, 3). Sustainable Recron Fibre Reinforced Concrete Using Marble Sludge Powder (Patent No: 473079), Date of Filing: 19.04.2022, Date of Grant: 24.11.2023. 4). Modular Design and Implementation of Stepped DC Source Multilevel Inverter by Reducing the Switching Components (Patent No. 477294), Date of Filing: 06.02.2019, Date of Grant: 06.12.2023. In total, the college has received six number of patents as on date.
- Various training programmes were organized to enhance the employability skills of the students. Four external agencies, viz., Evoria Skills, Bangalore, Innate Talent, Salem, Syasans Career Analytics, Silicon Software Solutions, Madurai have been engaged to impart both soft and technical skills. As on date about 37% of the students have been placed through the campus recruitment.
- 1st Prize & 2nd Prize Rs. 10,000 & Rs 12,000 won in Speech competition organized by Tamil Development Department (District Level) and State Level respectively by M Nellayapparaja – Final Year Biomedical Engg
- 1st Prize Rs. 10,000 won in Essay Writing competition organized jointly by Tamil Development Department and Anna University Regional Campus Madurai by M Murugeswari– Second Year Biomedical Engg
- 3rd Prize Rs. 5,000 won in Poetry Competition on Drug Awareness Programme by the District Admn. by Siva Sankari –II ECE
- Handball Tournament of Anna University Zone-18 was conducted on 10 & 11.10.2023

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

15.04: To review the evaluation procedure for the attainment of course outcomes

Chairman presented the proposed revision in the evaluation for the attainment of course outcomes considering the varied weightages of internal and external marks for the different category of the courses.

| Course Type | Direct Tools (90%) | | | | | | Indirect Tools (10%) |
|----------------------|--------------------|------------|---------------|-------------------|----------|---------------|----------------------|
| | Theory | | | Practical | | | |
| | IATs | Assig/Semr | End Sem. Exam | Observn. & Record | Lab Test | End Sem. Exam | |
| Theory | 25% | 15% | 50% | - | - | - | 10% |
| Practical | - | - | - | 40% | 15% | 35% | 10% |
| Theory Cum Practical | 10% | 8% | 27% | 20% | 7% | 18% | 10% |
| Projects | - | - | - | 35% (for reviews) | | 55% | 10% |

After detailed discussion, the members have resolved to approve and adopt the revised evaluation procedure for the attainment of course outcomes of the different category of courses from the year 2023-24 and onwards.

15.05: To ratify the withdrawal of Nov/Dec 2023 exam by a NCC cadet for attending selection camps for RDC

The chairman presented that a NCC cadet, Ms. S.Suganya of third year UG Electrical and Electronics Engineering student has applied to withdraw from appearing sixth semester Nov/Dec'2023 end semester examination for attending camps for selection to Republic Day Camp (RDC) at New Delhi. She was permitted to withdraw and write the Nov/Dec'2023 Examination during Apr/May 2024 Exam as per clause 17.1 of Regulation-2019. The appearance will not be considered as an attempt.

The members of the council ratified the decision of the college as per the regulation in allowing the student Ms. S. Suganya, a NCC cadet to withdraw from the examination in order to attend RDC selection camps.

15.06: To consider the recommendation of the Board of Studies of Electronics and Communication Engineering for the revised Programme Educational Objectives (PEOs) and Programme Specific Outcomes (PSOs) of the UG programme

Dr. K.Valarmathi, HoD/ECE presented the revised Programme Educational Objectives (PEOs) and the Programme Specific Outcomes (PSOs) as approved by the Board of Studies in the meeting held on 14.12.2023 for approval of the council for implementation from the year 2023-24 onwards.

Programme Educational Objectives (PEOs)

The Graduates will:

- PEO1:** Gain the required knowledge with basics in the field of Electronics and Communication Engineering to lead a professional career.
- PEO2:** Assess and deal with the problems with social values relevant to the field of Electronics and Communication Engineering.
- PEO3:** Engage in life-long learning by participating in professional activities and carrying out projects/research.
- PEO4:** Acquire relevant skills and to lead a team with ethics for success.

The council has resolved to approve the revised PEOs as recommended by the Board of Studies of the ECE department.

The council after discussion, suggested to merge the PSO2 and PSO4 in the draft as they reflect the same. The PSOs are rephrased by incorporating the suggestions as:

Programme Specific Outcomes (PSOs)

The Graduates will be able to:

- PSO1:** Design and analyze diverse problems in the field of telecommunication with standards
- PSO2:** Design and analyze the basic to advanced analog and digital electronics
- PSO3:** Apply signal and image processing techniques to study and analyze the systems for applications

The council has resolved to approve to adopt the revised PSOs of the UG Electronics and Communication Engineering as above with immediate effect.

15.07: To consider the recommendation of the Board of Studies of Computer Science and Engineering held on 11.12.2023

Dr. A. Ramathilagam, HoD/CSE presented the recommendation of the Board of studies:

Computer Science and Engineering

- Contents in Module-III of 'Computer Organization and Architecture (231CS31)' is splitted into two modules as module-III and module-IV due to its size. Module-IV and V are merged.
- R programming is introduced as module-III in the subject Programming in Data Science (231CS33) in third semester

- Contents on Database Security is added in module-IV in the subject 'Database Management Systems (231CS41)'.

Information Technology

- Contents on Biometric Technology, Privacy and Security are added in Module-V in the subject 'Computer Networks and Security {231IT51}'

Resolved to approve the recommendation of the Board of Studies of Computer Science and Engineering as presented above.

15.08: To consider the recommendation of the Board of Studies of Electrical and Electronics held on 2.12.2023

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

- Microprocessor and Microcontrollers (231EE52): Inclusion of the word 'assembly language programming' in module-II, Interfacing of LCD display, A/D and D/A converter and waveform generator in module-IV and Timer, I/O ports, Interrupts, Programming techniques of PIC microcontroller and applications in module-V in the syllabus content.
- Power System Analysis (231EE53): inclusion of the topic 'reactance diagram' in module-I and Types of Faults and symmetrical short circuit in module-III. Remove Handling of voltage controlled buses in module-II.
- Power Electronics and Renewable Energy Laboratory (231EE57): Inclusion of renewable energy related experiments such as Study of PV model characteristics, Study of micro wind energy characteristics, Performance assessment of Grid connected and Standalone Solar Power System and Performance assessment of micro Wind Energy Generator.
- Microprocessor and Microcontroller Laboratory (231EE58): Inclusion of an application using RaspberryPi kit
- Industrial Drives and Control (231EE61): Removal of the vector control topic in module-III.
- Industrial Drives and Control Laboratory(231EE67): Inclusion of additional experiments such as DSP based speed control of switched reluctance motor and DSP based speed control of BLDC motor.

The council suggested to keep 3 credits for the course Measurements and Instrumentation (231EE34).

Resolved to approve the recommendation of the Board of Studies of Electrical and Electrical Engineering as presented above and the suggestions of the members.

15.09: To consider the recommendation of the Board of Studies of MBA held on 12.12.2023

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

- Add the topic on 'Crisis Management in Global HR Practices' in the course Human Resource Management (233BA24).
- Recommended the NPTEL/Swayam course on "Management of Field Sales (noc19-mg37)" of IIT Kanpur as a value added course.
- Suggested to consider the NPTEL/Swayam courses such as Marketing Analytics, Finance analytics and Human Resource Analytics also as value added courses depending on the requirement and availability.

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

15.10: To consider the recommendation of the Board of Studies of Biotechnology held on 8.12.2023

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

- To offer a course 'Renewable Energy and Environment' as an open elective
- To offer value added courses: Medical Coding Certification, Food Analysis, and Tissue Culture and Micropropagation Techniques
- To introduce an experiment on Drug Designing in the theory cum practical subject Bioinformatics and Computational Biology (191BT64)
- To introduce experiments Pretreatment of Biomolecules in the subject Bioseparation Laboratory (191BT77)

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

15.11: To consider the recommendation of the Board of Studies of Mechanical Engineering held on 13.12.2023

Dr. H. Kanagasabapathy, HoD/Mech presented the recommendation of the Board of studies of Mechanical:

- Design of Machine Elements (231ME51): Module -1: Add "Fatigue Loading and Fatigue Failure

- Thermal Engineering (231ME52): Module -1: Title: change 'Air Standard Cycle' instead of 'Gas Power cycle' Module 2: Carburetor system Add "in SI Engines" after 'Carburetor system'
- Smart Manufacturing (231MEV24): Module -4: Add 'World Class Production System' and Concept of Mega factories'
- Additive Manufacturing (231MEV26): Module -3: Add 'Direct Material Sintering'

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

15.12: To consider the recommendation of the Board of Studies of Biomedical Engineering held on 6.12.2023

Dr. S. Manikandan, HoD/Biomedical presented the recommendation of the Board of studies of Biomedical Engineering:

- Recommended to increase the number of verticals from 4 to 5

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

15.13: To consider the recommendation of the Board of Studies of Civil Engineering held on 7.12.2023

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

- To offer verticals on 'Water Resources'
- To offer Fluid Mechanics and Hydraulics as separate courses
- To offer a course on Hydrology as an elective

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

15.14: Any Other Matters

- Dr.P.Palaisamy, suggested to increase the number courses under the verticals from 6 to 8.
- Dr.S.Sudha, insisted to keep uniformly the number of credits for all the UG programmes i.e., 164.
- Suggested to mention the approval of the previous minutes of the meeting by the members in the present minutes of the meeting.

The meeting concluded with vote of thanks at 1.30 pm.



[Signature]
 16/12/23
 Principal & Chairman
 P.S.R. ENGINEERING COLLEGE
 SIVAKASI-626 140.
 Page 9