P.S.R.ENGINEERING COLLEGE

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

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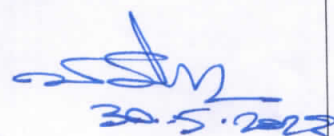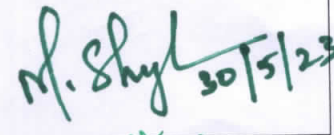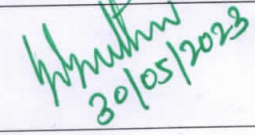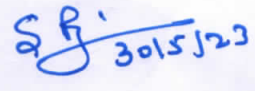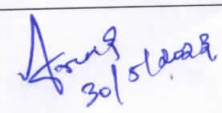### Tamilnadu State

MEETING OF ACADEMIC COUNCIL
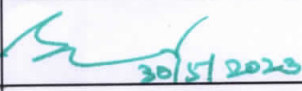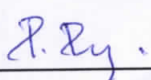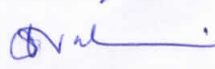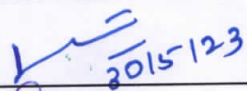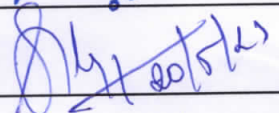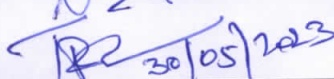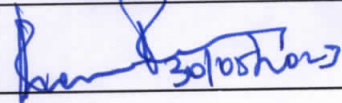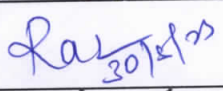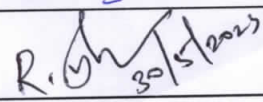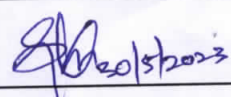
MINUTES OF 14th MEETING OF ACADEMIC COUNCIL OF P.S.R.ENGINEERING COLLEGE HELD ON 30th MAY 2023 AT 10.30 AM IN THE BOARD ROOM

Date: 30th May 2023

External Members Present

S.No.	Name and Affiliation	Category	Signature
1.	**Dr. P. Palanisamy** Professor, Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli – 620 015	University Nominee	_(signed) 30.5.2023_
2.	**Dr. M. Shyamala** Professor (Chemistry, GCT, Coimbatore), Tamilnadu Engg Admissions (TNEA), DoTE, Chennai - 600025	University Nominee	_M. Shyl 30/5/23_
3.	**Dr. S. Sudha** Professor and Dean i/c, University College of Engineering, Dindugal– 624 622.	University Nominee	_(signed) 30/05/2023_
4	**Dr. S. Rajaram** Professor, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai – 625015	Member-Academic	_S.Rj. 30/5/23_
5.	**Dr. D. Jebakani** Professor, Department of Mechanical Engg., Government College of Engineering, Tirunelveli-627017	Member-Academic	_unable to attend_
6.	**Mr. Arun Sundar** Director, Evoriea IT Solutions Pvt Ltd., Bangalore	Member-Industry	_(signed) 30/5/2023_
7.	**Mr V. Jeyakrishnan** Senior Manager, Royal Cyber Inc. Chennai	Member-Alumni	_unable to attend_

Internal Members Present

S.No.	Name of the Members	Designation	Signature
1.	Dr. J.S. Senthikumaar	Principal & Chairman	
2.	Dr. P. Marichamy	Professor & Dean	
3.	Dr. M. Shahul Hameed	HOD/Civil & Dean (Research)	
4.	Dr. P. Pitchipoo	Prof / Mech & IQAC Coordinator	
5.	Dr. K.Valarmathi	HOD/ECE	
6.	Dr. A. Ramathilagam	HOD/CSE	
7.	Dr. H. Kanagasabapathy	HOD/Mech	
8.	Dr. R. Madavan	HOD/EEE	
9.	Dr. J. Babitha Thangamalar	HOD/Biomed i/c	
10.	Dr. S. Sabarinusha Begum	HOD/BioTech	
11.	Dr. T. Rajkumar	HOD/MBA	
12.	Prof. D. Sriram	HOD/H&S	
13.	Dr. R. Kasiraman	Placement & Prof/MBA	
14.	Dr. R. Rajeswari	Controller of Exams	
15.	Dr. R. Vinoth	Assoc Prof/ECE	
16.	Dr. S. Venkatesh	Asst.Prof/Biotech	

The Principal and Chairman welcomed the members for the 14th 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.

ITEM NO #1: Compliance of Resolutions of 13th Meeting of the Academic Council

ITEMS of 12th Academic Council Meeting	Resolutions Passed	Compliance /Action Taken
ITEM#3: Amendments in Regulation R2019 (both UG & PG) – for Ratification	Members have resolved to approve/ratify the amendments in Regulation-2019 applicable to the students who have been admitted in the year 2021-22 and onwards.	Amendments are Included in R2019 Regulation.
ITEM#4: Revised First Year UG Curriculum and Syllabus 2023	Members have resolved to approve the curriculum and syllabi of the first year under the proposed new regulation 2023	To be adopted from the year 2023-24

ITEM NO #2: Appraisal of Academic Developments during the Year 2022-23

Chairman appraised to the members that the following developments have taken place during the academic year 2022-23.

- No. of Journal Publications during the calendar Year 2022 is 51 and 2023 (until 30th May 23) is 40
- No. of Books/Book Chapters during the calendar Year 2022 is 22 and 2023 (until 30th May 23) is 5
- No. of Conference Publications during the calendar Year 2022 is 128 and 2023 (until 30th May 23) is 158
- No. of Funded Projects Worth during the year 2022-23 is INR 17,475,100/-
- No. Patents Filed/Published during the calendar year 2022-23: 43
- International Certification Programmes conducted and the number of students benefitted: Microsoft Philanthropy – Cyber Security Stage-II - (CSE & ECE) – 53. Microsoft Power BI Data Analyst Associate - (CSE & ECE) – 80, Cloud Solutions Architect- Associate (AWS) - (CSE & ECE) – 251, Programming Essentials in Python – (ECE) – 121, Revit Architecture Course – (Civil) – 42, Cisco Networking Academy Training On Cyber Security Skills – (CSE) – 21

- Total number of Research Scholars who have Completed PhD in our Research Centres: 54 (during 2022-23: 6 candidates)
- Total number of Research Scholars pursuing PhD in the college: 83

The council members have noted down the academic developments during the academic year 2022-23 and appreciated the efforts of the college in offering international certification programmes, and progress in the research activities and publications.

ITEM NO #3: Curriculum Structure under new Regulation R2023 (both UG & PG)

The principal presented to the members the curriculum structure as proposed by the BOSs for the proposed new regulation 2023 and its salient features adhering to the regulations of AICTE and Anna University. After a detailed discussion, the members have suggested/recommended the following:

- Total number of credits can be kept uniformly for all the UG programmes i.e., 164 credits
- Total number of credits can be kept uniformly for Engg PG programmes i.e., 70 credits
- Total number of credits can be kept for the MBA programme i.e., 90 credits
- Number of subjects under verticals for electives may be increased to 7 or 8 to give more choices for the students to select and study
- For B.E./B.Tech (Honours) degree, the subjects may be offered from a particular vertical exclusively earmarked for it.
- The number of open electives offered by the department may be limited to a maximum of 5.
- Appropriate NPTEL/SWAYAM courses may be identified by the department and disseminated to the students in advance and that can be considered in the place of electives.

After discussion, the members have resolved to approve the curriculum structure under the new regulation 2023 with the above-mentioned suggestions/recommendations.

ITEM NO #4: Curriculum and Syllabus of the programmes under the new Regulation-2023

Heads of the Departments/Chairman of the Board of Studies have presented to the council about the proposed curriculum and syllabus that have been approved by the respective Board of Studies in the meetings held. The Dean, Dr. P. Marichamy informed the council that the BOSs meetings were conducted on the following dates and requested the respective chairman of the Board of Studies / Head of the departments to present the recommended curriculum and syllabus for the approval of the council.

Bio-Technology (BT) on 30.03.2023, Civil Department on 31.03.2023, Electronics and Communication Engineering (ECE) on 13.04.2023, Biomedical Engineering (BME) on 18.04.2023, Electrical and Electronics (EEE) on 22.04.2023, Mechanical on 27.04.2023, Computer Science and Engineering (CSE), Artificial Intelligence and Data Science (AIDS) & the proposed new Information Technology on 08.05.2023 and Master of Business Administration (MBA) on 22.05.2023.

4.1. Department of Electronics and Communication Engineering-Curriculum and Syllabus

Dr.K.Valarmathi, HoD and Chairman of the BoS of Electronics and Communication Engineering has presented to the council the recommended curriculum and syllabus of both B.E. Electronics and Communication Engg and M.E. Applied Electronics. After the presentation and subsequent discussion, the members suggested the following:

- Shift the course 'Signals and Systems' to 3rd semester and 'Analog Communication' to 4th semester
- Shift the courses 'Digital Signal Processing' and 'Digital Signal Processing Laboratory' to 4th semester
- In the 5th semester, replace the course 'Digital Signal Processing' with 'Digital Communication'. Also, replace the 'Digital Signal Processing Laboratory' with 'Communication Systems Laboratory'.
- The course 'Control Systems' can be made as a Theory Cum Practical course in the 5th semester.
- Suggested offering a minor degree in 'Embedded Systems' with 18 credits instead of 'Electronics Engg'.

After discussion, the members have resolved to approve the curriculum and syllabi of both B.E. Electronics and Communication Engg and M.E. Applied Electronics with the changes suggested.

4.2. Department of Biomedical Engineering-Curriculum and Syllabus

Dr. J. Babitha Thangamalar, HoDi/c of Biomedical Engineering has presented to the council the recommended curriculum and syllabus of both B.E. Biomedical Engineering. After the presentation and subsequent discussion, the members suggested the following:

- Suggested changing the credits of the course 'Biocontrol Systems' from 4 to 3.
- Suggested changing the title of the course 'Sensors and Measurements' to 'Biosensors' or 'Medical Sensors'.
- Increase the number of subjects in verticals to more than six.

After discussion, the members have resolved to approve the curriculum and syllabi of B.E. Biomedical Engineering with the changes suggested.

4.3. Department of Computer Science and Engineering-Curriculum and Syllabus

Dr. A. Ramathilagam, HoD and Chairman of the BoS of Computer Science and Engineering has presented to the council the recommended curriculum and syllabus of both B.E. Computer Science and Engineering and M.E. Computer Science and Engineering. After the presentation and subsequent discussion, the members suggested the following:

- Total number of credits shall be kept at 164
- The course 'Data Structures' shall be made common to the three programmes viz., B.E. Computer Science and Engineering, and B.Tech Artificial Intelligence and Data Science.
- Minor degree may be offered in 'Software Engineering'

After discussion, the members have resolved to approve the curriculum and syllabi of both B.E. Computer Science and Engineering and M.E. Computer Science and Engineering with the changes suggested.

4.4. Department of Artificial Intelligence and Data Science-Curriculum and Syllabus

Dr. A. Ramathilagam, HoD and Chairman of the BoS of Computer Science and Engineering has presented to the council the recommended curriculum and syllabus of B.Tech. Artificial Intelligence and Data Science. After the presentation and subsequent discussion, the members suggested the following:

- Total number of credits shall be kept at 164
- The course 'Data Structures' shall be offered with a common syllabus offered to B.E. Computer Science and Engineering.
- Minor degree may be offered in 'Artificial Intelligence'

4.5. Department of Civil Engineering-Curriculum and Syllabus

Dr.S.Shahul Hameed, HoD and Chairman of the BoS of Civil Engineering has presented to the council the recommended curriculum and syllabus of both B.E. Civil Engineering and M.E. Structural Engineering. After the presentation and subsequent discussion, the members suggested the following:

- Reduce the number of verticals from 7 to 5
- Suggested offering 'Environmental Science' for a minor degree

After discussion, the members have resolved to approve the curriculum and syllabi of both B.E. Civil Engineering and M.E. Structural Engineering with the changes suggested.

4.6). Department of Biotechnology-Curriculum and Syllabus

Dr. S. Sabarinusha Begum, HoD of Biotechnology has presented to the council the recommended curriculum and syllabus of both B.Tech. Biotechnology. After the presentation and subsequent discussion, the members suggested the following:

- Suggested replacing 2 credits with 1.5 credits for the III Semester course - Cell and Microbiology Laboratory
- Suggested including a separate laboratory for the VI Semester course – Bioinformatics and Computational Biology (Theory cum Lab)
- Suggested including two more electives in each vertical of Program Electives

After discussion, the members have resolved to approve the curriculum and syllabi of B.Tech Biotechnology with the changes suggested.

4.7). Department of Electrical and Electronics Engineering-Curriculum and Syllabus

Dr.R.Madavan, HoD and Chairman of the BoS of Electrical and Electronics Engineering has presented to the council the recommended curriculum and syllabus of both B.E. Electrical and Electronics Engineering and M.E. Power Electronics and Drives. After the presentation and subsequent discussion, the members suggested the following:

- Suggested offering the 'Measurement and Instrumentation' course as a Theory course with 3 credits instead of 4 credits
- Recommended to offer two practical courses in the sixth semester with 1.5 credits.
- Suggested offering a minor degree in 'Electric Vehicle'.

After discussion, the members have resolved to approve the curriculum and syllabi of both B.E. Electrical and Electronics Engineering and M.E. Power Electronics and Drives with the changes suggested.

4.8). Department of Mechanical Engineering-Curriculum and Syllabus

Dr.H.Kanagasabapathy, HoD and Chairman of the BoS of Mechanical Engineering has presented to the council the recommended curriculum and syllabus of both B.E. Mechanical Engineering and M.E. Engineering Design. After the presentation and subsequent discussion, the members suggested the following:

After discussion, the members have resolved to approve the curriculum and syllabi of both B.E. Mechanical Engineering and M.E. Engineering Design with the changes suggested.

4.8). Department of Management Studies-Curriculum and Syllabus

Dr. T. Rajkumar, HoD and Chairman of the BoS of Management Studies has presented to the council the recommended curriculum and syllabus for the Master of Business Administration (MBA). After the presentation and subsequent discussion, the members suggested the following:

After discussion, the members have resolved to approve the curriculum and syllabi of the Master of Business Administration (MBA) with the changes suggested.

ITEM NO #5: The Proposed new programme B.Tech Information Technology-Curriculum and Syllabus

Chairman informed that the college has applied to AICTE and Anna University for starting a programme on B.Tech Information Technology in the academic year 2023-24. The Board of Studies of the Computer Science and Engineering department has discussed and approved the proposed Curriculum and syllabus of the above course in the meeting held on 08.05.2023. Dr.A.Ramathilagam, HoD of the Computer Science and Engineering department presented the proposed curriculum and syllabi as approved by the Board of Studies. The chairman invited the member's suggestions and approval for the same.
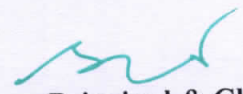
After discussion, the members of the council have approved the Curriculum and syllabus of the proposed UG programme on B.Tech – Information Technology.

ITEM NO #6: Any Other Matters

The members suggested the following:

- For B.E/B.Tech (Honours) degree, the required courses may be offered from vertical electives earmarked for it without mentioning the specialization
- Avoid offering Minor degrees on the programme names
- Two academic experts not below the rank of Associate Professor shall be nominated to the Board of Studies as per the guideline of the UGC.
- The courses offered under Naan Mudhalvan Scheme by the Tamilnadu Skill Development Corporation (TNSDC) for the ECE and CSE branches shall be treated as Electives.

The meeting concluded with a vote of thanks at 1.30 pm.

Principal & Chairman

PRINCIPAL
P.S.R ENGINEERING COLLEGE
Sevalpatti, SIVAKASI - 626 140
Virudhunagar (District)