



# PAAVAI

## ENGINEERING COLLEGE

(AUTONOMOUS)

NH-44, Paavai Nagar, Pachal, Namakkal - 637 018.

(Approved by AICTE Government of India | Affiliated to Anna University, Chennai)

## RESEARCH POLICY

JUNE 2024





### **Institution Vision**

To strive to be a globally model Institution all set for taking ‘lead-role’ in grooming the younger generation socially responsible and professionally competent to face the challenges ahead.

### **Institution Mission**

- To provide goal – oriented, quality – based and value – added education through state – of – the – art technology on a par with international standards.
- To promote nation – building activities in science, technology, humanities and management through research
- To create and sustain a community of learning that sticks on to social, ethical, ecological, cultural and economic upliftment.

## 1.0 INTRODUCTION

The Research and Development Cell was established in 2009 to promote research activities among faculty members, scholars, and students of the college. To further strengthen the research ecosystem, the **Centre for Research (CFR)** was established at Paavai Educational Institutions in March 2025, led by a full-time Director. The Director of the Centre for Research oversees and coordinates all research initiatives across the Paavai Group of Institutions under a unified framework.

The primary objectives of the Centre for Research include the formulation and implementation of strategic plans for scientific and technological research. The Centre supports a wide range of research activities, including supervision and execution of new research projects, interdisciplinary and multidisciplinary research, and academic collaborations with national and international institutions, universities, government bodies, and private industries. These efforts aim to result in the development of new or enhanced products, processes, or theses, ultimately leading to publications, intellectual property rights (IPR), and technology transfer.

### **Objectives of the Centre for Research**

- To integrate research with education, fostering a culture of inquiry and innovation.
- To empower faculty members and students to transform knowledge into impactful research by contributing incremental improvements that lead to product development and enhance societal well-being.
- To promote the research potential of faculty members by encouraging and supporting their innovative ideas.
- To facilitate the generation of patents and intellectual property rights (IPRs).
- To establish an Ethics Committee to monitor and prevent malpractices and plagiarism in research.

Paavai Engineering College (PEC) is deeply committed to serving society through cutting-edge research that aligns with both national and international standards. The institution fosters an open and inclusive platform that encourages a vibrant research culture and supports the pursuit of scholarly activities across disciplines.

## **Roles and Responsibilities of the Centre for Research**

### **1. Strategic Leadership and Policy Development**

- To provide policy guidelines and strategic direction for the growth and development of research activities.
- To periodically report to the Management and recommend policies, resources, and reforms to strengthen the research culture.
- To represent the Institution at national and international research forums and build strategic collaborations.

### **2. Research Promotion and Faculty Engagement**

- To motivate faculty members to register and commence their research work and to cultivate enthusiasm among faculty members for research and innovation.
- To advise on thrust areas and disciplines for initiating research programs and related activities aimed at future development.
- To mentor and advise Principal Investigators and research scholars in proposal preparation, project execution, and dissemination.

### **3. Support for Research Scholars**

- To guide research scholars in developing study designs and research methodologies, and in identifying relevant coursework.
- To periodically review and support the progress of research scholars.

### **4. Ethics and Integrity**

- To establish an Ethics Committee to monitor and prevent malpractices and plagiarism in research.

### **5. Infrastructure and Institutional Development**

- To recommend measures for enhancing existing infrastructure to support both academic and sponsored research, thereby improving the overall research environment.

- To ensure the smooth functioning and effective management of research and development activities across the institution.

## 6. Collaboration and Funding

- To establish collaborations with universities, public and private sector organizations, and to identify R&D projects, including consultancy services, that can be undertaken by the institution.
- To identify and recommend suitable research projects that may qualify for concessions or support from State and Central Government agencies.
- To conduct awareness programs on **Audit and Accounts Management** for Principal Investigators to ensure financial compliance and effective utilization of project funds.

## 2.0 ACADEMIC RESEARCH

Norms for Doctor of Philosophy (Ph.D.), Master of Science (M.S.) by research and Master of Philosophy (M.Phil.)

1. Candidates should enroll and register at PEC on getting provisional registration letter from Anna University and renew their registration during 1st week of Feb / Aug every semester. The format should be used for enrollment / renewal. For full time scholars, every day attendance is preferred.
2. Candidates should present his/her progress of research in the review meeting once in six months during 3rd week of Feb /Aug and submit the Half Yearly Progress Review Report (HYPRR) in the prescribed format to the department in which they have registered. The schedule for the review meeting would be prepared and announced by the concerned department.
3. The faculty after the award of Ph.D., shall get the guide ship. A supervisor, at any point of time, can guide 8 scholars at the maximum (including joint supervisor-ship). However, the number of full-time scholars to the supervisors can be limited by the institution time to time based on the infrastructure availability. Prior approval / permission should be obtained when there arises a need to guide more than the stipulated number of scholars under special / extraordinary / unordinary circumstances.
4. Research methodology course work have included in the Post Graduate curriculum.
5. The Supervisors shall endorse the candidates to publish their research work. The candidate shall publish their research paper in reputed (Scopus/ SCI/SCI-E/ESCI, Indian Citation Index) indexed conferences / Workshops / Journals) after obtaining formal permission from the respective Supervisor. The form should enclose both the paper and the Urkund report of the paper. Only after checking for Plagiarism, the Research supervisor can sign the form and permit the candidate to submit the paper to the journal.

6. The research scholar shall submit a copy of Ph.D. thesis to the College Library on successful completion of the Viva-Voce.

## 2.1 Plagiarism Check

1. All research supervisor recognized by Anna University login ID for online access to Urkund Plagiarism check software by Centre for Research, Anna University, Chennai.
2. Research Scholar should submit the copy of Urkund plagiarism check report to the concern supervisor for a paper before submitting to the journal/Conference.
3. The research scholar Synopsis/ Thesis should accompany Urkund plagiarism report while submitting same to Center for Research, Anna University.
4. All Under Graduate and Post Graduate Students thesis should include the copy of Plagiarism check for following Open-Source Plagiarism Checker Tools.
5. Maximum of 30% of similarity is allowed for Ph.D. Thesis, Synopsis and Post Graduate Thesis.

| <b>Name of the Plagiarism Checker</b> | <b>Link</b>   |
|---------------------------------------|---|
| CopyScape                             | <a href="#">CopyScape</a>   |
| Copyleaks                             | <a href="https://copyleaks.com/">https://copyleaks.com/</a>   |
| Plagscan                              | <a href="https://www.plagscan.com/en/plagiarism-reports">https://www.plagscan.com/en/plagiarism-reports</a> |
| Unicheck                              | <a href="https://unicheck.com/">https://unicheck.com/</a>   |
| SmallSEOTools                         | <a href="https://smallseotools.com/plagiarism-checker/">https://smallseotools.com/plagiarism-checker/</a>   |
| Quetext                               | <a href="https://www.quetext.com/">https://www.quetext.com/</a>   |

## 2.2 The Act of Plagiarism

1. In the case of scholars who have committed the act of plagiarism in the Thesis/journal publication, his/her Thesis/degree shall be forfeited and his/her research registration shall be cancelled and also, he/she shall be debarred to register for any other programme in the University.
2. For the abetment of above such action, the recognition of his/her Supervisorship shall be withdrawn for a period of five years and he/she shall be debarred from guiding the scholars for any research programme in the University till such period.
3. If any scholar has committed an act of self-plagiarism in the publications and ascertained by the Committee constituted by the Vice-Chancellor, such work shall not be allowed in his/her thesis and the scholar shall be fined up to Rs.50000/- while the Supervisor shall also face action. The Synopsis / Thesis of such scholar shall be accepted only based on a new publication in a

referred journal (as applicable).

4. If plagiarism is detected in the Publications / Thesis of any other scholar under the same supervisor, the recognition of his/her Supervisorship shall be withdrawn for a period of five years and he/she shall be debarred from guiding the scholars, besides other disciplinary action.

### **3.0 SPONSORED / COLLABORATIVE RESEARCH PROJECTS**

- 3.1 Faculty members are encouraged to apply for funding support from government agencies and industries to undertake sponsored or collaborative research, based on calls for proposals issued by these organizations.
- 3.2 A **Research Advisory Committee (RAC)** has been constituted within the Centre for Research. It comprises the Director – Research, Director – Administration, Principal, subject experts, and co-opted members. This committee chaired by the Director - Research is responsible for evaluating and recommending research proposals.
- 3.3 Upon approval by the RAC, the Principal Investigator (PI) shall submit the application, along with all supporting documents, to the respective funding agency's portal through the office of the Principal.
- 3.4 Once the project is sanctioned, the PI shall create a dedicated account head and maintain a stock register with accurate entries for all purchases—both recurring and non-recurring.
- 3.5 If applicable, the PI shall appoint a Project Fellow through a transparent recruitment process. This includes advertising the position and conducting interviews, with the selection panel comprising the PI, Head of Department, and one external expert, in accordance with the approved project budget.
- 3.6 The PI shall participate in biannual Progress Review Meetings organized by the Centre for Research. These meetings are chaired by the Director – Research and include the Principal and subject experts. The PI must submit a Half-Yearly Progress Review Report to the concerned department head.
- 3.7 At the end of the project duration, the PI shall prepare a **Project Completion Report** in accordance with the guidelines of the funding agency.
- 3.8 The PI shall also prepare a **Utilization Certificate (UC)**, duly signed by the institution's auditor.
- 3.9 The Project Completion Report, Utilization Certificate, and a list of publications and patents resulting from the project shall be submitted to the sponsoring agency through the Director - Research and the Principal.



#### **4.0 ACCOUNTING AND FINANCIAL SUPPORT BENEFITS TO PRINCIPAL INVESTIGATORS (PIs)**

- 4.1 Within the framework of a sponsored project, Principal Investigators (PIs) may receive consultancy fees or honoraria, subject to approval by the sponsoring agency.
- 4.2 Subject to the availability of funds under the travel budget and with the approval of both the Principal and the Director – Research, PIs may be reimbursed for expenses such as travel allowance (TA), daily allowance (DA), and registration fees for presenting papers at national and international conferences relevant to the project.
- 4.3 Based on the recommendation of the PI and with the approval of the Principal and the Director – Research, project staff and students may be eligible for seed funding. If funds are available under the travel budget, TA, DA, and registration fee support may also be extended to them.

#### **5.0 RESEARCH CONDUCT AND COMPLIANCE**

All researchers are expected to adhere to the research policy of the institution, guided by the core principles of **Quality** and **Ethics**. They are also responsible for ensuring that their research practices conform to the policies and guidelines set forth by **Anna University**.

## RESEARCH ADVISORY COMMITTEE

| S.No | Members  | Designation        |
|------|--|--------------------|
| 1.   | Prof. R. R. Krishnamurthy<br>Director, Centre for Research, Paavai Educational Institutions                | Chairman           |
| 2.   | Dr.K.K.Ramasamy<br>Director – Administration, Paavai Educational Institutions                              | Vice-Chairman      |
| 3.   | Dr.M.Premkumar, Principal, PEC   | Member - Secretary |
| 4.   | Dr. N. Alagumurthi ,<br>Professor, Pondicherry Engineering College, India                                  | Advisor            |
| 5.   | Dr. U.Chandrasekhar,<br>Program Director -AddWize at Wipro 3D, Karnataka, India.                           | Advisor            |
| 6.   | Dr. C.Govindaraju, Associate Professor (CAS), GCE, Salem.  | Advisor            |
| 7.   | Dr. G.Arun, Professor , Department of EIE, Hindusthan<br>College of Engineering and Technology, Coimbatore | Advisor            |
| 8.   | Dr.B.Anand, Professor , Department of EIE, Hindusthan<br>College of Engineering and Technology, Coimbatore | Advisor            |
| 9.   | Mr.S.Senthil Kumar,<br>Advisor – NSIC,CEO,<br>Orbit Controls & Solutions Ltd.,Chennai                      | Advisor            |
| 10.  | Prof. Kamala Krishnamurthy, Centre Head<br>Paavai Innivation Forum (PIF), Pachal, Namakkal Dist.           | Advisor            |
| 11.  | Mr.R.Sundaram, Founder Aeropark, Salem   | Advisor            |
| 12.  | Dr. K. Gopalakrishnan, Dean (R&D),<br>New Horizon College of Engineering (NHCE), Bangalore.                | Advisor            |
| 13.  | Dr.N.Sivakumar, Assistant Professor, Thiagarajar College of<br>Engineering                                 | Advisor            |

## **6.0 RESEARCH AND CONSULTANCY POLICY**

- Balancing the Academic, Consultancy and Research work without compromising the quality.
- All consultants' in-charge and members at PEC will comply with the highest ethical standards for the conduct of research and consultancy work.
- A fair and honest research and consultancy work by understanding one's own values, limitations, competence, belief system, and client needs.
- Confidentiality in all circumstances in maintaining documentation and safeguarding the clients' confidential inputs and data.
- There will be mutual understanding of the roles, interests and responsibilities of consultant in-charge and the members concerned.
- Promoting the highest possible standards in research and consultancy.
- Encourage freedom of expression and mutual collaboration through open exchange of ideas among various departments.
- Apply clear procedures to organize the research and consultancy work.
- Consultant in-charge and senior members have the responsibility to develop the junior faculty members, UG and PG students in developing the necessary skills to acquire research and consultancy work from the industries.
- Making PEC become the number one industry- institution hub with state-of-the-art technologies.

## **7.0 COMMERCIAL AND REVENUE POLICY**

- Acquiring works from Small Scale Industries (SSI) near the institution.
- Signing MoUs with many industries of different domains of Science, Engineering and Technology.
- Visiting industries to understand the reality and requirement.
- Developing small products/projects that are required for the industries /institutions/ society at an affordable cost.
- Fostering Environment /Ecological balance/Economy/Energy awareness in the mind and to contribute technological support for betterment of the nation.
- A committee will be constituted to find and execute industrial consultancy, research and product development.
- Appointing an Advisor for the consultancy, research, product development for industry interaction.
- The selection of advisor will be based on having a minimum of 25 years of

multidisciplinary industrial experience.

- Minimum paper work makes the client comfortable in establishing institutional relationship.
- Selection of CI/CO for the work will be decided by the Committee.
- The CI/CO can make the interested students involve in this activity.
- The CI/CO has to create awareness and interest among the students for this work.
- The committee will frame the time, cost, venue and procedural aspects of the work.
- The committee will have the power to add or remove any of the CO but not the CI.
- Requesting the clients to supply the components required for the work.
- Ensuring Confidentiality in all circumstances while handling documentation and protecting the clients' sensitive information and data by the committee.
  - The revenue must be purely on technical and scientific advice.
  - The revenue sharing is divided into three parts:
    - Expenses/honorarium/salary to CI/CO
    - Department concerned
    - Support to the institution
- The revenue will be shared as
  - Expenses/honorarium/salary to CI/CO                      20%
  - Department concerned    60%
  - Support to the institution    20%
- The revenue has to be distributed to the CI/CO/advisors concerned and the students involved in the work.

## RESEARCH AND DEVELOPMENT COMMITTEE

| S.No | Members                                     | Designation |
|------|---|-------------|
| 1.   | Dr.M.Premkumar, Principal, PEC              | Chairman    |
| 2.   | Dr.G.Balaji, Head / EEE                     | Member      |
| 3.   | Dr.D. Banumathy, Head / CSE                 | Member      |
| 4.   | Dr.K.Sundara Murthy, Professor / Mechanical | Member      |
| 5.   | Dr.D.R.P.Rajarathnam, Head / MCT            | Member      |
| 6.   | Dr. R.MohanaPriya, Head / ECE               | Member      |
| 7.   | Dr. P. Jayakaran, Head / Chemical           | Member      |
| 8.   | Dr.T.Krishnakumar, Head / Physics           | Member      |
| 9.   | Dr.G.Raja, Head / Chemistry                 | Member      |
| 10.  | Dr.R.Aravind, Head / Aero                   | Member      |
| 11.  | Dr. T. Arunkumar, Head / Bio Medical        | Member      |
| 12.  | Dr. R. Praveen Cumar, Head / Pharmaceutical | Member      |

### ETHICS COMMITTEE

| S.No | Members                                     | Designation |
|------|---|-------------|
| 1.   | Dr.M.Premkumar, Principal, PEC              | Chairman    |
| 2.   | Dr.G.Balaji, Head / EEE                     | Member      |
| 3.   | Dr.D. Banumathy, Head / CSE                 | Member      |
| 4.   | Dr.K.Sundara Murthy, Professor / Mechanical | Member      |
| 5.   | Dr.T.Krishnakumar, Head / Physics           | Member      |
| 6.   | Dr.G.Raja, Head / Chemistry                 | Member      |



## **PAAVAI VISION**



## **PAAVAI CULTURE**

We challenge the changes  
We seek beyond the best  
Work shall be taken not to be given  
We produce value added professionals  
We lead to Prosper, Excel and Conquer

## **PAAVAI MANTRA**

Own Our Words and Deeds

