SRI RAAJA RAAJAN
COLLEGE OF ENGINEERING AND TECHNOLOGY

Amaravathipudur Post, Karaikudi – 630301, Sivagangai Dt, Tamilnadu.
(Approved by AICTE – New Delhi & Affiliated to Anna University, Chennai.)
(Certified ISO 9001-2015 and recognized under section 2(f) of UGC act 1956)
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RESEARCH AND DEVELOPMENT CELL (R&D CELL)

CIRCULAR

The Research and Development cell has been reconstituted with the following members for the academic year 2024-2025. The Research and Development cell aims to develop a structured RDC with role-based committees and governance and Synchronize efforts across innovation, incubation, IPR, and industry linkages. The members of the R&D cell are,

Sl.No.	NAME	DESIGNATION	COMPOSITION
1.	Dr.A.Elango	Principal	Chair person
2.	Dr.N.Rajeswari	Dean/EEE	Convener
3.	Dr.A.Andrew	IQAC/Director	Member
4.	Dr.K.Senthamarai	Dean/Mech.	Member
5.	Dr.R.Meena Devi	Professor/Chemistry	Member
6.	Dr.A.Pratima	Professor/Physics	Member
7.	Dr.V.Sarathi	Professor/Agri.	Member
8.	Mrs. K.Isabella Rani	HOD/ ECE	Member
9.	Mr.R.Susil kumar	HOD/ CSE	Member
10.	Mrs.D.Sujatha	HOD/ AI&DS	Member
11.	Mrs.S.Divya	HOD/Civil	Member

SRI RAAJA RAAJAN COLLEGE OF ENGINEERING AND TECHNOLOGY KARAIKUDI

PRINCIPAL

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Sri Raaja Raajan College of Engg. & Tech.
Amaravathipudur, Karaikudi - 630 301
Sivagangai Dist. Tamil Nadu

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RESEARCH AND DEVELOPMENT CELL

Introduction

In alignment with NEP 2020, Sri Raaja Raajan College of Engineering and Technology, Amaravathi puthur, Karaikudi aims to establish a vibrant **Research and Development Cell (R&D Cell)** to foster a culture of high-quality, impactful research and innovation. The R&D Cell will act as the nucleus for driving research initiatives across disciplines and creating transformative solutions to societal, industrial, and national challenges, contributing towards an Atma-Nirbhar Bharat.

1. Members of R&D Cell (for the AY 2024-2025)

Sl.No.	NAME	DESIGNATION	COMPOSITION
1.	Dr.A.Elango	Principal	Chair person
2.	Dr.N.Rajeswari	Dean/EEE	Convener
3.	Dr.A.Andrew	IQAC/Director	Member
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2. Vision

- To function as a center of excellence with world-class instructional and infrastructural facilities to realize the vision of producing highly disciplined, talented students to serve humanity in unparalleled style.

3. Mission

- To produce exceptionally competent professionals through personalized teaching and graduates who are ethically upright and educationally bright to render service of global standards.

4. Objectives

1. Develop a structured RDC with role-based committees and governance.
2. Formulate and implement research policies and thrust areas.
3. Promote strategic partnerships and consortia.
4. Facilitate project proposal development and funding processes.
5. Synchronize efforts across innovation, incubation, IPR, and industry linkages.
6. Maintain a dynamic Institutional Research Information System (RIMS).
7. Utilize expertise of retired faculty/scientists for capacity building.
8. Ensure ethical and responsible research practices.
9. Promote ideation through workshops, internships, and collaborative programs.

5. Governance and Organizational Structure

- **Research Advisory Council (RAC):** Headed by the Principal.
- **Director, RDC:** A senior faculty with research credentials.
- **Committees:**
  - Research Policy and Planning Committee
  - Funding and Collaboration Committee
  - IPR and Ethics Committee
  - Research Monitoring and Evaluation Committee
  - Innovation and Incubation Committee
  - Administrative staff and technical support teams.

6. Strategic Research Initiatives

a. Thrust Areas

- Sustainable Engineering
- Artificial Intelligence and Machine Learning

- Renewable Energy and Environmental Technology
- IoT and Embedded Systems
- E-Vehicles

b. Research Initiatives

- Formation of interdisciplinary research clusters.
- Center of Excellence.

7. Research Promotion & Capacity Building

- Annual Research Week (Seminars, Hackathons, Paper Presentations)
- Research Methodology Workshops
- Training in Proposal Writing and Project Management
- Summer/Winter Research Internships
- Awards for Best Researcher/Innovator (Faculty & Student)

a) Integrity and ethics

A standard plagiarism check should be mandatorily implemented and requisite software should be made accessible to all researchers. A committee comprising of senior and experienced faculty members is being set up to approve works prior to submission process so as to ensure the quality of the work to be published. Sensitize the research community about dubious research and publishing practices and predatory journals. Faculty members and post graduate students are being educated on ethical practices to be followed in research by encouraging them to attend webinars and workshops being conducted by outside institutions.

8. Research Incentives and Recognition

- Seed funding for new faculty.
- Awards for publishing in Scopus/WoS journals.
- Patent filing incentives.
- Fast-track promotions for research contributions.
- Performance-based increments and sabbatical policies.

a) Capacity building

- Build the capacity of faculty and students to undertake research problems in line with latest advances in diverse disciplines.
- A number of post graduate projects are assigned to the students to help them upgrade

their knowledge.

- Faculty members have also registered for Ph.D programs and thereby pursue research in topics of current interest relating to interdisciplinary or multidisciplinary areas.
- Regular events such as refresher workshops, trainings/internships, group discussions and seminars/conferences to be organized for capacity building.
- Conferences have been conducted during the past few years to address the needs.

9. Collaboration & Networking

- MoUs with industry and research labs.
- Joint research projects
- Utilization infrastructure and knowledge resources.

a) Research monitoring

- Creation of infrastructure
- Some labs offer testing and consultancy services to institutions and the industries as well.
- Generation of resources
- Promotion of business
- Facilitation of policy frame work
- Conduct a quality review (SWOC analysis) / internal evaluation of research papers and suggest Scopus indexed, Web of Science or UGC CARE recognized journals for appropriate publications.
- Already a number of papers have been published in indexed journals under the supervision of senior experienced faculty members.

10. Institutional Research Information System

- A centralized database for:
    - Research Projects
    - Publications
    - Patents and IPR
    - Faculty Expertise and Facilities
- Research compliance

11. Innovation, Incubation, and Technology Development

- Incubation center
- Start-up facilitation and mentorship.

12. Financial Strategy

- Establish a Research Corpus Fund.
- Secure grants from:
  - Government
  - Industry and CSIR
- Provision in institutional budget for research support.

13. Research Integrity and Ethics

- Mandatory plagiarism checks.
- Research ethics committee for project clearance.
- Awareness workshops on publication ethics and predatory journals.

14. Monitoring and Evaluation

- SWOC analysis and benchmarking.
- Annual Research and Innovation Report.
- End-term reviews of all funded projects

15. Expected Outcomes

- Significant increase in funded projects and research publications.
- Recognition as a nodal R&D center in the region.
- Patents and technology transfers.
- Start-ups incubated from student/faculty innovations.
- Enhanced national and global academic rankings.