



DR. ACS COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, GoK, & Affiliated Visvesvaraya Technological University, Belagavi

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BENGALURU

RESEARCH AND DEVELOPMENT POLICY



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RESEARCH AND DEVELOPMENT POLICY

1. Preamble

Dr. A.C.S. College of Engineering (ACSCE) is committed to fostering a vibrant research culture that promotes innovation, knowledge creation, and technological advancement. The institution recognizes research as an integral component of higher education and strives to create an ecosystem that encourages faculty members, researchers, and students to undertake high-quality, ethical, and socially relevant research.

This policy provides a comprehensive framework for planning, promoting, monitoring, and evaluating research activities in accordance with the University Grants Commission (UGC) and VTU Guidelines for the Establishment of Research and Development Cells (RDCs), National Education Policy (NEP) 2020, and other applicable regulatory provisions.

2. Vision

To develop Dr. ACS College of Engineering into a nationally recognized research-driven institution with global collaborations, fostering excellence in interdisciplinary research, innovation, entrepreneurship, and sustainable technological development through Research and Development Cell

3. Mission

- Promote applied and translational research addressing societal and industrial needs.
- Provide state-of-the-art research infrastructure for faculty, research scholars, and students.
- Encourage interdisciplinary research in engineering, science, and emerging technologies.



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- Contribute to sustainable engineering solutions in renewable energy, biomedical engineering, autonomous systems, artificial intelligence, nano-technology, sensor networks, advanced materials, and quantum computing.
- Foster collaborations with industries, research organizations, universities, and international institutions.

4. Objectives

The objective of the Research and Development Policy is to:

1. Develop a vibrant research ecosystem across all departments.
2. Establish state-of-the-art interdisciplinary research laboratories.
3. Promote research leading to publications, patents, products, technologies, and start-ups.
4. Encourage externally funded research projects from government, industry, and international agencies.
5. Strengthen collaborations with national and international universities, research institutions, and industries.
6. Enhance consultancy and technology transfer activities.
7. Promote innovation and entrepreneurship among students and faculty.
8. Ensure ethical conduct of research through established institutional mechanisms.
9. Improve the institution's research rankings, visibility, and societal impact.

Members of the Research Committee

The Research Committee is constituted to guide, promote, monitor, and strengthen research and innovation activities in the institution. The Committee provides strategic direction for research initiatives in alignment with the Higher Education Institutions guidelines and the institutional research objectives.



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Advisory Committee

Sl. No.	Name & Designation	Position
1	Dr. B. S. Shylaja , Principal, Dr. ACSCE	Advisor
2	Dr. P. Theerthamalai , Dean-COE, Former Director, DRDL	Advisor

Research Board

Sl. No.	Name & Designation	Position
1	Dr. T. Senthil Kumaran , Dean (Research & Development)	Chairman
2	Dr. G. Ramanan , Professor & Head, Department of Aeronautical Engineering	Member
3	Dr. C. Suresh , Professor & Head, Department of Aerospace Engineering	Member
4	Dr. S. M. Nandha Gopal , Professor & Head, Department of Computer Science & Engineering	Member
5	Dr. S. M. Vijaya , Professor & Head, Department of Electronics and Communication Engineering	Member
6	Dr. H. S. Siddesha , Professor & Head, Department of Mechanical Engineering	Member
7	Dr. D. V. Anandhi , Associate Professor & Head, Department of Physics	Member
8	Dr. M. S. Shivakumar , Associate Professor & Head, Department of Chemistry	Member
9	Dr. K. T. Pradeep Kumar , Associate Professor & Head, Department of Mathematics	Member

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5. Scope

This policy applies to:

- Faculty Members
- Research Scholars
- Undergraduate Students
- Postgraduate Students
- Research Staff
- Departments
- Research Centres
- Industry Collaborators

6. Seed Money Scheme

The Dr. ACSCE Seed Money Scheme provides financial support for approved innovative research projects to promote a strong research culture, facilitate proof-of-concept studies, foster interdisciplinary research, and encourage the acquisition of external research funding, publications, patents, and technology transfer.

The objectives are to:

- Support pilot research projects.
- Facilitate submission of externally funded proposals.
- Encourage interdisciplinary research.
- Promote patent-oriented research.

Projects shall be evaluated based on novelty, feasibility, societal relevance, expected outcomes, and budget requirements.

7. Research Incentive Policy

The institution shall provide incentives for:

- Publications in Scopus/Web of Science indexed journals.



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- High SNIP/SJR journal publications.
- Books and book chapters published by reputed publishers.
- Sponsored research projects.
- Patent filing and granted patents.
- Consultancy projects.
- Technology transfer and commercialization.
- National and international research awards.

The incentive structure shall be notified separately by the Research and Development Cell.

8. Sponsored Research

Faculty members shall be encouraged to obtain funding from:

Government Funding Agencies: University Grants Commission (UGC), Department of Science and Technology (DST), Department of Biotechnology (DBT), Defence Research and Development Organisation (DRDO), Indian Space Research Organisation (ISRO), Council of Scientific and Industrial Research (CSIR), Indian Council of Medical Research (ICMR), Indian Council of Social Science Research (ICSSR), Ministry of Electronics and Information Technology (MeitY), Ministry of Education (MoE), Ministry of New and Renewable Energy (MNRE), AICTE, VTU and other Central and State Government agencies.

Reputed Academic and Research Institutions: Indian Institutes of Technology (IITs), Indian Institute of Science (IISc), National Institutes of Technology (NITs), Central Universities, State Universities, and other recognized national and international higher education and research institutions.

Industry and Corporate Organizations: Public Sector Undertakings (PSUs), private industries, multinational corporations, research and development



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organizations, start-ups, and industry associations through sponsored research, consultancy, and Corporate Social Responsibility (CSR) initiatives.

International Funding Agencies: World Bank, Asian Development Bank (ADB), United Nations agencies, UNESCO, UNICEF, the European Union (EU), Horizon Europe, the Bill & Melinda Gates Foundation, the Wellcome Trust, and other recognized international funding organizations, subject to Government of India regulations.

9. Intellectual Property Rights (IPR)

The institution shall:

- Promote patent filing.
- Support copyright registration.
- Facilitate technology transfer.
- Encourage innovation and entrepreneurship.
- Establish an Intellectual Property Rights Cell.

10. Research Ethics

All research activities shall adhere to:

- UGC Regulations on Academic Integrity.
- VTU Regulations
- Plagiarism Prevention Regulations.
- Ethical standards for research involving human participants, animals, and the environment.
- Responsible conduct of research.



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11. Collaboration

The institution shall establish collaborations with:

- National Institutes
- International Universities
- Industries
- DRDO Laboratories
- ISRO Centres
- CSIR Laboratories
- IISc, IITs, NITs
- Medical Institutions
- Reputed MNCs

12. Monitoring and Evaluation

The Research and Development Cell shall review research performance annually based on:

- Publications
- Citations
- H-index
- Sponsored projects
- Consultancy
- Patents
- Ph.D. enrolment and completion
- Technology transfer
- Start-ups
- Societal impact



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13. Expected Outcomes

Implementation of this policy is expected to:

- Develop a vibrant research culture.
- Increase externally funded projects.
- Improve publication quality.
- Enhance patent generation.
- Promote innovation and entrepreneurship.
- Strengthen industry collaboration.
- Improve national and international rankings.
- Contribute to sustainable technological development and nation-building.

14. VTU Requirements for Research Centres

For departments seeking recognition as VTU Research Centres, the institution shall ensure compliance with the applicable VTU Research Regulations, including:

- Availability of VTU-recognized Research Supervisors in the concerned discipline, as prescribed by the University.
- Provision of adequate laboratory, computing, research, and library infrastructure to facilitate high-quality doctoral research.
- Subscription to the prescribed national and international journals, along with access to relevant digital library resources.
- Maintenance of the required faculty strength, qualifications, and faculty–research scholar ratio in compliance with VTU norms.
- Adherence to all VTU regulations, including inspection, monitoring, reporting, and other requirements for the recognition, continuation, and renewal of the Research Centre.



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15. Approved Research Centre (VTU Belagavi)

- ❖ Aerospace Engineering
- ❖ Biomedical Engineering
- ❖ Computer Science and Engineering
- ❖ Electronics and Communication Engineering
- ❖ Mechanical Engineering
- ❖ Physics
- ❖ Chemistry
- ❖ Mathematics

16. Policy Review

The Research and Development Policy shall be reviewed once in every three years or whenever revised guidelines are issued by UGC, AICTE and VTU.