



RESEARCH AND DEVELOPMENT CELL

About Research and Development Cell

The Research and Development Cell (R&D Cell) at Christian College of Engineering and Technology serves as a key driver in fostering a dynamic research ecosystem for both faculty and students. Its core mission is to stimulate curiosity, promote creative problem-solving, and build specialized skills that can effectively tackle practical, real-world issues.

The cell supports a broad spectrum of activities, including fundamental and applied research, technological innovation, product development, and the wide sharing of knowledge via research grants, scholarly publications, patents, and partnership-driven projects. Additionally, it actively encourages collaboration between academia and industry, cross-disciplinary research efforts, and strategic alliances with other educational bodies, corporate sectors, and public agencies.

Through these sustained efforts, the R&D Cell significantly enhances academic standards, contributes to community welfare, and promotes sustainable progress in science and technology. In doing so, it reinforces the institution's overarching goal of shaping highly capable professionals who are well-equipped to address complex global challenges.

Vision

To cultivate a dynamic research environment that encourages intellectual exploration and technical proficiency, thereby driving creative breakthroughs that respond to worldwide and community-based issues.

Mission

- To cultivate a vigorous research orientation among faculty members and students, grounded firmly in academic distinction.
- To encourage interdisciplinary exploration and creative reasoning directed at addressing urgent real-world issues confronting both society and industry, while simultaneously reinforcing partnerships with the business sector to drive technological advancement and shared growth.
- To enhance the tangible value of research through concrete deliverables—such as published papers, registered patents, externally funded initiatives, and the effective commercialization of discoveries—thereby guaranteeing widespread societal advantage.

Objective

- To foster an academic atmosphere centered on research excellence throughout the institution.
- To inspire both faculty and students to engage in pioneering research endeavors.
- To encourage the dissemination of research outcomes through prestigious journals and academic conferences.
- To establish partnerships with corporate entities, research institutes, and grant-providing bodies.
- To advance the creation of patents, copyrights, and other forms of intellectual property.
- To upgrade laboratory setups and research amenities to accommodate cutting-edge investigative work.

Research Policy

The Research and Development Cell at Christian College of Engineering and Technology is dedicated to cultivating a research-centric academic culture that inspires both faculty and students to pursue pioneering projects aimed at tackling real-world industrial and social issues.

The institution advances research through the following measures:

- ✓ Promoting project work undertaken by academic staff and students
- ✓ Encouraging the dissemination of findings in esteemed journals and at scholarly conferences
- ✓ Facilitating the submission of patents and safeguarding intellectual assets
- ✓ Enabling partnerships with industry and offering advisory/consultancy services
- ✓ Encouraging educators to seek external funding for investigative initiatives
- ✓ Embedding research and creative thinking into the academic curriculum

The R&D Cell operates as the primary hub for managing and coordinating all research-related activities, including grant applications, scholarly output, intellectual property, and external partnerships within the institution.

Research Promotion Scheme

To strengthen the research ecosystem, the institution actively encourages:

- ❖ Submission of project proposals to both domestic and international grant-giving bodies
- ❖ Active involvement in conferences, training workshops, and faculty development programs
- ❖ Dissemination of research findings in Scopus-indexed, SCI-covered, and other peer-reviewed journals
- ❖ Faculty engagement in joint research endeavours with corporate partners and academic institutions

- ❖ Student involvement in mini-projects, capstone thesis work, and creative innovation contests

The R&D Cell further organizes capacity-building sessions on research methodologies, academic writing, patent application procedures, and drafting successful grant proposals.

Consultancy and Industry Collaboration:

The institution actively promotes consultancy services to enhance connections between academia and industry.

Key objectives include:

- Extending technical advisory services to commercial enterprises
- Addressing practical industrial challenges through systematic investigation
- Facilitating cooperative research initiatives alongside corporate entities
- Encouraging student internships, plant visits, and industry-mentored projects

Such partnerships significantly enrich hands-on experience, boost career readiness, and accelerate technological progress.

Intellectual Property Rights (IPR) Promotion:

The R&D Cell is committed to achieving the following milestones:

- A measurable rise in scholarly publications within leading academic journals
- An increased volume of patent submissions and intellectual property registrations
- Securing externally sponsored research grants and funding
- Strengthened corporate alliances and consultancy operations
- Greater involvement of students in research activities
- Creation of novel technological solutions that address pressing community needs

Research Advisory Council:

Constitution of the Research Advisory Council of CCET.

S.No.	Position in the Council	Name of the Faculty	Designation & Department	Mobile No. / Email ID
1	Chairperson	Dr.K.ParimalaGeetha	Principal	9524124125/ principal@christianengineering.in
2	Member	Dr.T.Gopalakrishnan	Professor & Head, Department of Electronics and Communication Engineering	8778548127/ tgkrishnanme@gmail.com
3	Member	Dr.S.Karthikeyan	Professor & Head, Department of Mechanical Engineering	9943440010 mekarthikeyan1@gmail.com

Research& Development Cell Director:

S.No	Position in the Cell	Name of the Faculty	Designation& Department	Mobile No. / Email ID
1	Director	Dr C. Sundar	Professor &Head, PG - Department of Computer Science and Engineering	9600341971/ sundarc007@gmail. com

Finance and Infrastructure Committee:

A Committee is framed in favour of allocating funds and structuring infrastructure for research purposes.

S.No.	Position in the Committee	Name of the Faculty	Designation& Department	Mobile No. / Email ID
1	Coordinator	Dr. P.L. Ramesh Kumar	Professor &Head, Department of Manufacturing Engineering	9486637172/ plrameshkumar80@gmail. com
2	Member	Dr. P. Paramasivan	Associate Professor, Department of Electrical and Electronics Engineering	9843592019/ 1986sivame@gmail.com
3	Member	Mrs. J. Vanitha	Assistant Professor, Department of Computer Science and Engineering	8870083414/ jvanithajanarthanam@gmail. com

Research Program & Policy Development Committee:

Committee members participating in research initiatives and the formulation of institutional policies.

S.No	Position in the Committee	Name of the Faculty	Designation& Department	Mobile No. / Email ID
1	Coordinator	Dr.K.Jayaram	Associate Professor, Department of Electronics and Communication Engineering	9790029049/ kjairam1980@gmail.com
2	Member	Mr. A. Vadivel	Assistant Professor, Department of Mechanical Engineering	9787081355/ vel.nithi09@gmail.com
3	Member	Mr.C.Dhanasekar	Assistant Professor, Department of Computer Science and Engineering	6381009003/ dhanasekar136@gmail.com

Collaboration and Community Committee:

The committee members who promote joint ventures and active communication with outside organizations.

S.No.	Position in the Committee	Name of the Faculty	Designation & Department	Mobile No. / Email ID
1	Coordinator	Dr. P. Booma Devi	Professor & Head, Department of Electrical and Electronics Engineering	9952460603/ hodeeacct2022@gmail.com
2	Member	Mr. A. Francis Xavier Rajan	Assistant Professor, Department of Mechanical Engineering	9443188243 afxrajan@gmail.com
3	Member	Mrs. S.Kalaivani	Assistant Professor, Department of Science and Humanities (Mathematics)	8248761779/ skalaivani981@gmail.com

Product Development, Monitoring and Commercialization Committee:

The committee members who encourage novel approaches, keep a watch on implementation, and push for the practical application of research.

S.No.	Position in the Committee	Name of the Faculty	Designation & Department	Mobile No. / Email ID
1	Coordinator	Dr. R. Suresh	Associate Professor, Department of Mechanical Engineering	8072969515/ rsuresh.srs@gmail.com
2	Member	Mr. R. ArulAnand	Assistant Professor, Department of Information Technology	9789625958/ arulanand1987@gmail.com
3	Member	Mrs. S. Priyadharsini	Assistant professor, Department of Electronics and Communication Engineering	8015330089/ 1996priyadharsini@gmail.com

IPR, Legal and Ethical Matters Committee:

Members of the committee directing intellectual property strategy, legal oversight, and ethical review processes.

S.No	Position	Name	Designation	Mobile No. / Email ID
1	Coordinator	Dr. M. ShanmugaPrabu	Assistant Professor, Department of Mechanical Engineering	9976638648 chellamshanmugam@gmail.com
2	Member	Mr. S. Srinivasan	Assistant Professor, Department of Agricultural Engineering	9003673304/ srinivasanssmiet@gmail.com
3	Member	Mr.J. Rex DhivakarArockiya Raj	Assistant Professor, Department of Civil Engineering	6380096750/ rexdhivakar@gmail.com

Anna University Recognized Supervisors:

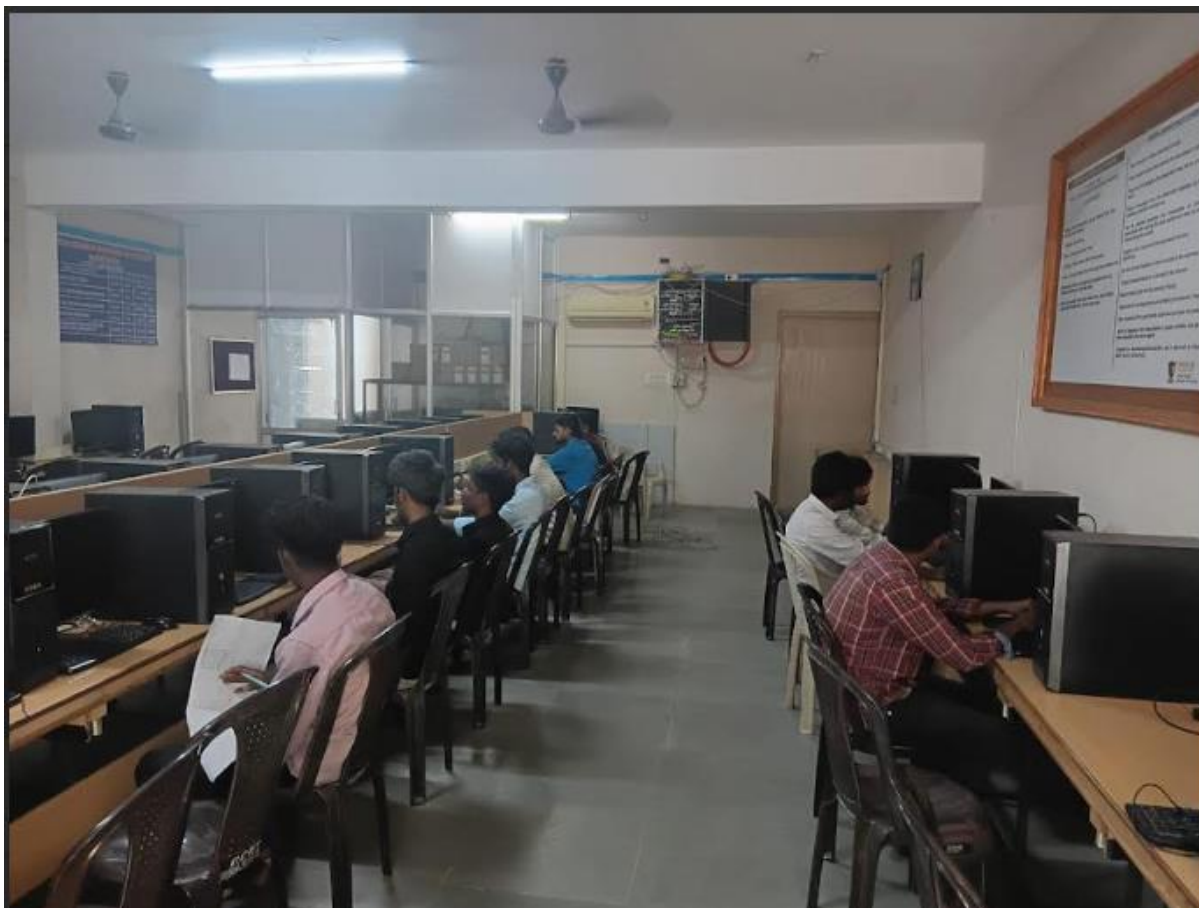
S.No	Name of the Supervisor	Supervisor Reference No.	Department
1	Dr. P.L.Ramesh Kumar	3020024	Mechanical
2	Dr. S.Karthikeyan	2920032	Mechanical
3	Dr. C. Sundar	2640010	Computer Science Engineering
4	Dr. T.Gopalakrishnan	3930035	Electronics and Communication Engineering

List of Research Scholars:

S.No	Name of the Scholar	Name of the Supervisor	Registered under the Faculty (Discipline)	Year of Registration	Status
1	Mrs.K.Kavithadevi	Dr.S.Karthikeyan	Information and Communication Engineering	July, 2018	Confirmation Completed
2	Mr.R.Raffik	Dr.S.Karthikeyan	Mechanical Engineering	January, 2019	Confirmation Completed

3	Mrs.K.Radha	Dr.S.Karthikeyan	Information and Communication Engineering	July, 2019	Confirmation Completed
4	Mr.A.Francis Xavier Rajan	Dr.P.L.Ramesh Kumar	Mechanical Engineering	June,2021	Confirmation Completed

Research Facilities:



Research Lab (CADD/CAM Lab) in Mechanical Department

Research laboratory is designed to serve as a primary research facility for all engineering departments, focusing on next-generation technologies. The available infrastructure is strategically utilized to:

- ❖ Advance fundamental and applied research conducted by faculty and graduate students.
- ❖ Accelerate the development of proof of concept models for novel research proposals.
- ❖ Support student-led initiatives for high level national and international innovation challenges.
- ❖ Enable the path from research to commercialization, allowing for the development and testing of market ready products.

This facility has been crucial to the success of numerous research projects and awardwinning student innovations, underpinned by a highspeed network infrastructure vital for complex data processing and simulation.

S.No.	Department	Name of the Research Laboratory
1.	Science and Humanities	Applied Physics & Applied Chemistry Laboratory
2.	Civil Engineering	Strength of Materials Laboratory
3.	Computer Science and Engineering	Language Laboratory
4.	Computer Science and Engineering	Simulation Laboratory
5.	Computer Science and Engineering	Research Laboratory
6.	Computer Science and Engineering	Python Laboratory
7.	Electronics and Communication Engineering	Microwave and Optical Laboratory
8.	Electronics and Communication Engineering	Embedded Systems Laboratory
9.	Mechanical Engineering/ Electrical and Electronics Engineering	CADD/CAM Laboratory