

RESEARCH & DEVELOPMENT CELL

About R&D Cell:

Research is the back bone of any academic institution. Research and Development is very essential for innovative experimentation of the knowledge acquired from the books. The growth of the academic institution is measured by the research oriented faculties that are working in the institution. As researchers, they need to understand the past and recent developments in their subject areas. Many high ranking Universities / Institutions in the world (Berkely, MIT, Cornell, Stanford, Princeton etc.) and India (IITs, IISc, IIITs, NITs etc.) exhibit a very high correlation between quality teaching and Research & Development(R&D) activities. Even among the affiliated colleges, those which have Ph.D. faculty on their rolls and are engaged in R & D activities are regarded as good colleges.

Priyadarshini Institute of Science and Technology for Women(PRIW) recognized the importance of Research & Development in the vertical growth of the institution and established the R&D cell to focus on the scientific and industrial research in the various disciplines of Engineering. PRIW R&D cell is an integral part of the academic activities and is one of the wings of the Institute which facilitates, channelizes, records, regulates all the academic, sponsored, collaborative research projects and consultancy works in the Institute. In a world increasingly propelled by technology, academic research forms the mainspring of a nation's economic growth.

PRIW R&D cell aspires to transform the lives of young budding engineers, research scholars and faculty through their innovative ideas to contribute for research at academic level. PRIW R&D cell is closely working with core industries to train the students in this direction and producing ready to be employed engineers. The PRIW R&D cell is a nominated committee consisting of Professors from various programs of Engineering. The organizational structure consists of Advisor, Chairman, Dean and Coordinators for facilitating the routine functioning of the cell.

Vision:

Empowerment of women in the field of interdisciplinary research, innovation and entrepreneurship activities to meet the social needs.

Mission:

- To achieve excellence in R&D, Technology Innovation and Business start-ups.
- To promotes interdisciplinary culture, ethical conduct of research and compliance among students and teaching community.
- To create foster knowledge and technology transfer by engaging with government agencies, research institutions and industries.

- To produce exceptional scientific results, manage projects and grants, thus enabling an environment by addressing global challenges and encouraging economic progress in the region for the society.

Research Objectives:

- To motivate the faculty and students towards research and innovation.
- To create centres of Excellence in the areas of research and development.
- To work closely with the industrial needs that eventually will result in new or improved products, processes, systems or services that can increase productivity of the industry.
- To foster collaborations for mutual benefits and to maximize Industry - Institute connectivity.
- To establish collaboration with other universities, public and private sectors and identify R&D projects including consultancy services which could be undertaken at the institution.
- To promote research in various departments of the Institute.
- To ensure smooth functioning and effective Management of R&D at the institution.
- To organize and promote skill development trainings in emerging areas to enhance the employability skills of the students.
- To promote self employability skills by conducting various activities under Center for Innovation, Incubation and Entrepreneurship (CIIE).

Functions of Research and Development Cell:

- To create awareness and opportunities in Research and Development among the students & faculty and to create Research and Development atmosphere in every department.
- To create interest and atmosphere among the staff members to take up Research projects and improve their knowledge, skills and qualifications by registering Ph. D's.
- To motivate the faculty members of the group for R&D activities in the area of their specialization.
- To encourage staff members and students to publish technical papers for publishing in National and reputed International Conferences/Journals.
- To encourage faculty members of all the disciplines in Engineering/Science /Humanities/Management in R&D activities for their professional growth.
- To undertake research activities and development projects offered by agencies such as ISRO, DRDO, CSIR, DST, AICTE, UGC, etc.
- To assist the students to apply funding for conducting research and startups under student project scheme to various funding agencies like MSME, IEI (I), DRDO, TCS, Infosys etc.

- To assist for applying and getting funds for conducting Seminar/Workshop/FDP from various funding agencies.
- To facilitate the growth of research activity among the academic community, including developing mechanisms and targets to achieve it.
- To develop and coordinate strategies for maximizing the faculty's success in gaining external research funding.
- To maintain and disseminate current information about relevant research policy areas and initiatives in government, in the professions and in relevant industries, including external funding opportunities.
- To develop strategies to foster research collaborations within the faculty, across faculty and institutes and with agencies outside the college.
- To initiate and promote MoU with industries and R&D organizations for consultancy, collaborative research, sponsored projects, industry and Institute interactions etc.
- To work with various departments to establish and develop faculty research priorities on interdisciplinary areas.
- To interact with industry, government, professions and the wider community on all research matters promote faculty research activities to external stakeholders.
- To coordinate faculty level workshops and staff development activities on research-related issues.
- To maintain effective links with government departments, authorities, business, and commerce and industry organizations relevant to the college research activities

Research policy:

- Incentives are provided for publications.
- Facilities such as flexibility in timings, use of laboratories etc are extended to faculty as per requirement.
- Implementing a policy for distribution of testing and consultancy charges to motivate faculty for providing consultancy.
- Faculty with an aptitude for research is identified.
- An initiative is taken by R&D to help researchers in understanding recent updates of their publications in terms of citation index, h-index, etc.

Facilities:

- Systems with high speed internet
- Library with digital access
- Conferences, Seminars and skill development trainings.
- Center for excellence in Robotics and IoT.
- Center for Innovation, Incubation and Entrepreneurship.
- State of the art laboratories with computerized equipments.

Innovation & Entrepreneurship Development Cell (IEDC):

This cell is headed by Dr.B.Gopal It helps student community to conduct research work and survey for identifying entrepreneurial opportunities Functions To invite eminent personalities from small and large industries and organize seminars and workshops with them. To motivate students to become entrepreneurs.

Functions:

- To invite eminent personalities from small and large industries and organize seminars and workshops with them to promote self employability skills.
- To motivate students to become entrepreneurs.

In order to promote research and development activities, the college extends its full support to students and faculty. Full/Partial financial support is given to all innovative research & development works taken up by the students and faculty members. The college encourages students and faculty to participate in National/International Conferences, Training programmes, Tech-Festivals organized by reputed institutes (IITs/NITs/Universities etc.) by giving full/partial financial support viz. course/registration fee, TA/DA etc.