



RESEARCH AND DEVELOPMENT CELL – R&D CELL

The Research and Development Cell (R&D Cell) of A.K.T. Memorial College of Engineering and Technology is established with the objective of promoting research culture, innovation, scientific temper, and technological development among students, faculty members, and researchers in alignment with the vision and mission of the Institution and the evolving requirements of academic, industrial, scientific, and societal sectors. The R&D Cell serves as a platform for fostering research excellence by facilitating research activities, interdisciplinary collaboration, innovation support, consultancy services, publication initiatives, funded projects, and industry-oriented research opportunities within the Institution. The Cell aims to strengthen the research ecosystem by encouraging quality research, knowledge creation, problem-solving approaches, and outcome-based innovation for academic and societal advancement.

The R&D Cell systematically plans, organizes, and coordinates various research and innovation activities such as research methodology workshops, Faculty Development Programmes (FDPs), seminars, conferences, symposiums, expert lectures, patent awareness programmes, funded research initiatives, collaborative research projects, consultancy activities, publication support programmes, innovation challenges, and technical training sessions. The Cell also facilitates interaction with researchers, scientists, industry experts, entrepreneurs, research organizations, funding agencies, and professional bodies to provide exposure to emerging technologies, advanced research practices, innovation trends, and scientific developments.

Further, the R&D Cell encourages students and faculty members to participate in research projects, funded proposals, consultancy assignments, publication activities, patent filing initiatives, product development activities, technical competitions, innovation programmes, startup support initiatives, and collaborative research activities aimed at enhancing research competency, analytical thinking, technical expertise, innovation capability, and professional growth. The Cell also promotes interdisciplinary and industry-supported research, incubation support, technology transfer activities, and establishment of advanced research laboratories and centres for strengthening research infrastructure and innovation ecosystem within the Institution.

The R&D Cell maintains comprehensive records and documentation related to funded



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projects, research publications, patents, consultancy projects, collaborative research activities, innovation initiatives, conferences, workshops, technical events, and research-oriented programmes conducted by the Institution. The Cell periodically reviews the effectiveness and impact of research and development activities and identifies opportunities for strengthening research collaboration, innovation practices, funding support, publication quality, consultancy services, and technology development. Based on its activities and assessments, the R&D Cell prepares reports and submits recommendations to the Management and the Governing Body of A.K.T. Memorial College of Engineering and Technology for continuous improvement of research excellence, innovation support, consultancy development, knowledge creation, and holistic academic and professional growth across the Institution.

OBJECTIVES:

- To promote research culture, innovation, scientific temper, and interdisciplinary research activities among students and faculty members.
- To encourage faculty members and students to undertake quality research, funded projects, consultancy activities, publications, patents, and product development initiatives.
- To organize research-oriented programmes such as workshops, seminars, conferences, FDPs, expert lectures, and technical training sessions for enhancing research competency and innovation capability.
- To facilitate collaboration with industries, research organizations, funding agencies, academic institutions, and professional bodies for collaborative research, consultancy, and technology development activities.
- To strengthen research infrastructure, innovation ecosystem, technology transfer activities, and industry-supported research initiatives in alignment with institutional and societal needs.

ROLES AND RESPONSIBILITIES:

- To foster and strengthen research culture, scientific temper, innovation mindset, inquiry-based learning, and interdisciplinary research activities among students, faculty members, and researchers of the Institution.



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- To encourage a spirit of curiosity, creativity, critical thinking, innovation, and technology-oriented problem-solving within the Institution.
- To promote and support quality research, consultancy projects, funded research activities, product development, innovation initiatives, and applied research activities addressing industrial and societal challenges.
- To provide administrative, technical, and logistical support for research initiatives, funded projects, consultancy assignments, innovation activities, and collaborative research programmes.
- To assist faculty members and researchers in the preparation, submission, and management of research proposals, consultancy proposals, sponsored projects, and funding applications.
- To identify and disseminate information regarding research grants, fellowships, innovation schemes, consultancy opportunities, and funding support offered by Government agencies and organizations such as Department of Science and Technology (DST), Council of Scientific and Industrial Research (CSIR), Defence Research and Development Organisation (DRDO), All India Council for Technical Education (AICTE), and other funding bodies.
- To assist researchers and faculty members in securing grants, consultancy support, sponsorships, and financial assistance for research and innovation projects.
- To facilitate collaboration with academic institutions, research organizations, industries, laboratories, innovation centres, professional bodies, and Government agencies for collaborative research and knowledge exchange.
- To build networks and partnerships that promote joint research initiatives, interdisciplinary projects, industrial collaboration, consultancy activities, and technology development.
- To encourage faculty members and students to undertake innovative projects, interdisciplinary research, prototype development, startup-oriented innovation, and industry-supported research activities.
- To support publication of quality research papers, review articles, books, book chapters, conference papers, patents, and technical documents in reputed journals and conferences.



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- To facilitate interaction with scientists, researchers, industrial experts, innovators, entrepreneurs, and academicians for enhancing research exposure and professional competency.
- To explore opportunities for technology transfer, commercialization of research outcomes, prototype development, product innovation, and startup support activities.
- To facilitate the process of patent filing, intellectual property protection, licensing activities, and commercialization of intellectual assets generated through research activities.
- To create awareness regarding research ethics, academic integrity, plagiarism prevention, Intellectual Property Rights (IPR), and responsible conduct of research within the Institution.
- To organize workshops, seminars, conferences, symposiums, Faculty Development Programmes (FDPs), research methodology programmes, expert lectures, and technical training sessions for enhancing research competency and innovation capability.
- To provide support and encouragement for faculty members and students to participate in conferences, workshops, seminars, certification programmes, and professional development activities related to research and innovation.
- To support the establishment and effective utilization of advanced research laboratories, research centres, incubation support systems, and innovation facilities within the Institution.
- To organize innovation challenges, technical competitions, research exhibitions, project expos, and idea presentation events for promoting creativity, innovation, and research excellence.
- To maintain records and documentation related to funded projects, research publications, patents, consultancy activities, collaborative projects, innovation initiatives, technical events, grants received, and research achievements of the Institution.
- To monitor the progress, outcomes, and impact of ongoing research projects, consultancy assignments, collaborative research activities, and innovation initiatives undertaken within the Institution.
- To conduct periodic evaluations and reviews of the effectiveness, impact, and



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performance of the R&D Cell activities and recommend suitable measures for continuous improvement.

- To guide researchers, faculty members, and students on research methodologies, best practices, publication standards, project management, and innovation processes.
- To prepare annual reports, utilization reports, research statistics, achievement reports, and future action plans related to research and development activities and submit them to the Institution Management and concerned authorities.
- To collaborate with Entrepreneurship Development Cell (EDC), Industry Institute Interaction Cell (IIIC), Intellectual Property Rights (IPR) Cell, Innovation Cell, incubation centres, and other institutional bodies for strengthening research, innovation, entrepreneurship, and technology commercialization ecosystem.
- To support the Institution in achieving research excellence, innovation growth, consultancy development, technology transfer, industry collaboration, and accreditation-related quality objectives.

COMPOSITION:

The following members, along with the nominees representing the Management, Academic Administration, Departments, Faculty Members, Researchers, Industry Experts, Research Organizations, Innovation Agencies, Alumni, Professional Bodies, Students, and other stakeholders, are hereby designated as members of the Research and Development Cell (R&D Cell) of A.K.T. Memorial College of Engineering and Technology for the effective planning, organization, implementation, monitoring, and continuous improvement of research activities, innovation initiatives, funded research projects, consultancy services, publication activities, patent-related activities, collaborative research programmes, technology development, and interdisciplinary research activities in alignment with the requirements of academic, industrial, scientific, and technological sectors and the objectives of the Institution.

Sl. No.	Name	Role	Designation
1.	Dr. T.S. Sivakumaran	Chairperson	Principal
2.	Dr. S. Ramesh	Convener	ASP – AI&DS



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3.	Mrs. K. Vinothini	Member	AP – Civil
4.	Mrs. C. Mythili	Member	AP – CSE
5.	Mrs. N. Rajeshwari	Member	AP – ECE
6.	Mr. P. Sivaprakasam	Member	AP – EEE
7.	Mr. R. Ashokkumar	Member	AP – Mech
8.	Mrs. T. Aruna	Member	AP – IT
9.	Mr. A. Ramesh	Member	AP - S&H (Chemistry)

EXPECTED OUTCOMES:

- Enhanced collaboration and partnership between the Institution and industries for promoting industry-oriented education and practical learning.
- Increased opportunities for internships, industrial visits, in-plant training, live projects, and experiential learning activities for students and faculty members.
- Improved technical competency, employability skills, professional readiness, and industry exposure among students through continuous industry interaction programmes.
- Strengthened industry participation in workshops, seminars, expert lectures, collaborative training programmes, and curriculum enrichment activities.
- Increased industry-supported projects, consultancy activities, collaborative research initiatives, and technology-oriented innovation practices within the Institution.
- Enhanced interaction with industry experts, entrepreneurs, alumni, and corporate professionals for mentoring, networking, and career development support.
- Improved awareness among students and faculty members regarding emerging technologies, industrial trends, automation practices, and career opportunities in various sectors.
- Development of strong industry networks, strategic partnerships, and Memorandums of Understanding (MoUs) supporting long-term academic and industrial collaboration.
- Enhanced placement opportunities, internship support, skill development initiatives, and professional growth through active industry engagement.
- Contribution towards institutional excellence in industry interaction, innovation,



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consultancy, practical learning, employability enhancement, and accreditation-related quality improvement activities.

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SDG MAPPING:

The activities and initiatives of the Research and Development Cell (R&D Cell) are aligned with the following United Nations Sustainable Development Goals (SDGs):

SDG	SDG Title	R&D Cell Contribution
SDG 4	Quality Education	Promotes research culture, innovation, scientific learning, technical competency, and continuous knowledge enhancement among students and faculty members.
SDG 8	Decent Work and Economic Growth	Encourages research-driven innovation, consultancy activities, entrepreneurship support, employability enhancement, and technology-based economic development.
SDG 9	Industry, Innovation and Infrastructure	Supports innovation ecosystem, collaborative research, product development, technology transfer, advanced laboratories, and industry-oriented research activities.
SDG 11	Sustainable Cities and Communities	Encourages research and innovation activities addressing societal development, environmental sustainability, and



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		community-oriented technological solutions.
SDG 12	Responsible Consumption and Production	Promotes sustainable technologies, resource optimization, environmentally responsible research practices, and innovation for sustainable development.
SDG 17	Partnerships for the Goals	Strengthens collaboration with industries, research organizations, funding agencies, academic institutions, innovation centres, and professional bodies for research and development activities.

