



RAAK

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

An ISO 9001:2015 Certified Institution

INSTITUTIONAL DEVELOPMENT PLAN





PREFACE

An Institution's success hinges on its Institutional development planning, which acts as a roadmap to achieving its vision and mission. This ongoing process is crucial in today's competitive environment, ensuring the institution aligns with its surroundings. These surroundings encompass internal and external factors that can influence the institution's activities, both positively and negatively. Institutional development planning (IDP) and Implementation is a tool derived from analyzing current obstacles and potential future opportunities. It charts a course for the institution to navigate towards its established goals and objectives.

The initial IDP stage sets the institution's vision, mission, core values, and long-term/short-term goals through a SWOC analysis and stakeholder feedback. Following internal and external assessments, institutional goals are formulated across various areas through brainstorming sessions with faculty and department heads. Finally, specific strategies and action plans are developed.

To foster a sense of ownership among all stakeholders, the Institutional development planning (IDP) and Implementation document is formulated with extensive participation. Drafts are circulated throughout all departments for review. The document prioritizes clear implementation and monitoring strategies, outlining measurable targets aligned with expected outcomes. Finally, the IDP undergoes a meticulous review and approval process by the institution's Staff Council.

The Institutional development planning (IDP) and Implementation serves as a central guiding force, ensuring all institutional processes and efforts work in unison.



Vision, Mission and Quality Policy

VISION

To be a premier engineering institution renowned for excellence in education, research, and innovation, preparing global leaders who drive transformative change in their fields and communities.

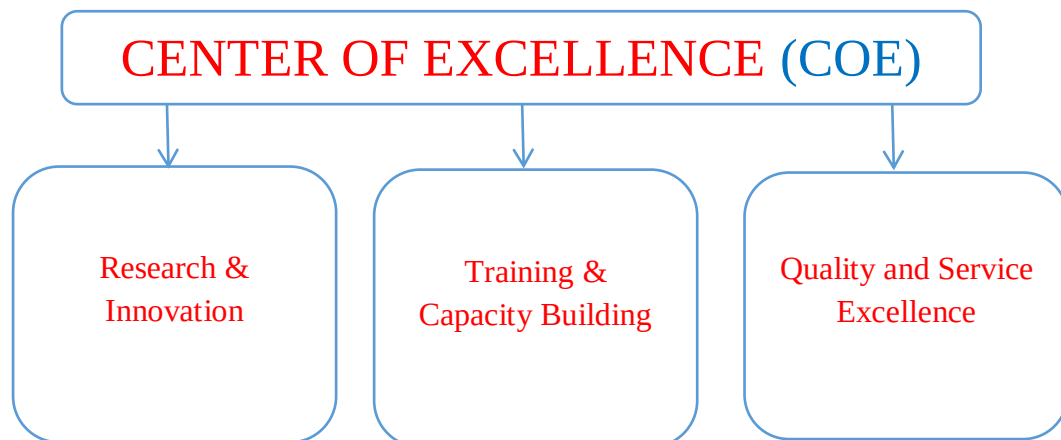
MISSION

Our mission is to do purposeful work that impacts our global society. This important work includes:

- ❖ Empower students through rigorous education grounded in fundamental principles and practical skills across diverse engineering disciplines.
- ❖ Foster a culture of innovation, creativity, and entrepreneurship that prepares graduates to address complex global challenges.
- ❖ Promote interdisciplinary collaboration and ethical responsibility in research, education, and societal engagement.
- ❖ Provide state-of-the-art infrastructure and learning resources that support holistic development and lifelong learning.
- ❖ Cultivate partnerships with industry, academia, and communities to enhance education quality, research impact, and societal relevance.

QUALITY POLICY

RAAK College of Engineering and Technology (RAAKCET) is committed to empowering our students to become responsible and ethical citizens who contribute meaningfully to society. We achieve this by providing high-quality technical education and fostering a culture of continuous improvement in pursuit of becoming a world-class engineering institution.





SWOC Analysis

STRENGTHS (S):

- ❖ **Industry-Aligned Programs:** RAAKCET offers B.Tech/MBA programs designed with industry input, ensuring graduates possess the skills employers seek.
- ❖ **Expert Faculty:** The college boasts a team of industry-trained faculty members who bring real-world experience to the classroom.
- ❖ **Focus on Discipline & Ethics:** RAAKCET instills a strong sense of discipline and ethical conduct in its students.
- ❖ **Proven Placement Success:** The college has a history of achieving excellent placement records for its graduates.
- ❖ **Exposure to Industry:** National industrial visits provide students with firsthand industry experience.
- ❖ **Supporting Rural Students:** RAAKCET actively promotes inclusivity and supports students from rural communities.
- ❖ **Advanced Learning Environment:** Smart classrooms and cutting-edge sports infrastructure enhance the learning and overall student experience.
- ❖ **Dedicated Mentorship:** RAAKCET provides excellent proctorial guidance to support students throughout their academic journey.
- ❖ **Well-Resourced Learning:** RAAKCET offers well-equipped laboratories to facilitate practical learning and experimentation.
- ❖ **National Recognition:** RAAKCET membership in IIC signifies its commitment to innovation and entrepreneurship.
- ❖ **Entrepreneurship Ecosystem:** The college's incubation center fosters student innovation and provides support for aspiring entrepreneurs.



WEAKNESSES (W):

- ❖ **Limited Diversity in Student Body:** While RAAKCET welcomes students from rural backgrounds, attracting a broader student population could enrich campus life and perspectives.
- ❖ **Encouraging Collaborative Learning:** RAAKCET could explore ways to enhance collaborative work among students, fostering teamwork and communication skills.
- ❖ **Enhancing Research Output:** Increasing the number of publications in top academic journals can elevate RAAKCET's research profile and faculty recognition.
- ❖ **Strengthening Industry Ties:** Building stronger networks with local industries for internship placements, guest lectures, and research collaborations could be beneficial.
- ❖ **Promoting Student Research Participation:** Strategies to encourage student involvement in research projects can ignite their passion for innovation and discovery.
- ❖ **Expanding Faculty Expertise:** Considering the potential benefits of inviting visiting or adjunct faculty with specialized knowledge can further enrich the educational experience.

OPPORTUNITIES (O):

- ❖ **Leveraging Online Learning:** RAAKCET can utilize online resources to enhance teaching and learning, offering flexibility and reaching a wider audience.
- ❖ **Industry-Academia Collaboration:** Building stronger bridges with industry partners can provide guest lectures, research collaborations, internship placements, and real-world project opportunities for students.
- ❖ **Alumni Network Advantage:** Engaging alumni for placements, industry consultancy, and collaborative student projects can leverage their experience and strengthen the RAAKCET community.
- ❖ **Fostering Innovation:** Organizing Make-A-Thon or Hack-A-Thon events can stimulate student creativity, problem-solving skills, and entrepreneurial thinking.



- ❖ **Competitive Exam Preparation:** RAAKCET can offer targeted support to help students prepare for competitive exams, enhancing their career prospects.
- ❖ **Securing Research Funding:** Exploring research grants from industry partners and government agencies can strengthen RAAKCET's research capabilities and faculty output.
- ❖ **Industry-Aligned Value-Added Courses:** Developing value-added courses tailored to industry requirements can equip students with in-demand skills for a competitive job market.

CHALLENGES (C):

- ❖ **Enhancing PG Program Appeal:** Strategies to attract more qualified students to PG departments might include innovative program offerings, scholarships and industry collaboration.
- ❖ **Bridging the Skill Gap:** RAAKCET can work towards ensuring graduates possess the industry-ready skills companies seek through internships, industry projects, and skill-development workshops.
- ❖ **Standing Out from the Crowd:** Developing a strong institutional brand identity and highlighting RAAKCET's unique strengths can help it stand out in a competitive educational landscape.
- ❖ **Boosting Core Placements:** RAAKCET might explore collaborating with core companies to understand their specific needs and tailor curriculum and training programs accordingly.
- ❖ **Enhancing Graduate Employability:** Negotiation skills workshops or career guidance programs can help graduates secure better salary packages with core companies.



Strategic Objectives

- ❖ ***Autonomous Aspiration:*** Achieve Autonomous status within the next Year.
- ❖ ***NAAC B++ Accreditation:*** Secure NAAC B++ grade during the 1st Cycle Accreditation process.
- ❖ ***Strengthen Industry Collaboration:*** Foster strong partnerships with top multinational companies (MNCs) for mutually beneficial collaboration.
- ❖ ***Centres of Excellence:*** Establish Centres of Excellence in emerging engineering fields like advanced materials and manufacturing, artificial intelligence, energy, and the Internet of Things (IoT).
- ❖ ***Faculty & Staff Well-being:*** Create an invigorating work environment that fosters excellence and well-being for faculty and staff.
- ❖ ***Active Alumni Network:*** Increase alumni involvement in various aspects of institutional development, including placements, guest lectures, student mentoring, startup incubation, research & development, and consultancy.
- ❖ ***Industry R&D and Consultancy:*** Collaborate with various industries in research & development and consultancy projects.



LONG TERM GOAL

LTG 1. To Create Centres of Excellence.

- ❖ Creation of Centres of Excellence (COE) by utilizing the resources and expertise in each cluster.

LTG 2. To Provide Modern Infrastructure Facility.

- ❖ Develop infrastructure for carrying out R&D activities.
- ❖ Academic infrastructure to be strengthened further
- ❖ Strengthen campus wide networking.
- ❖ Modernization of all laboratories.
- ❖ Upgradation of Central Library.

LTG 3. To have 70% of Faculty with PhD qualification.

- ❖ Encourage all faculty to register for Ph.D.
- ❖ Support faculty who have already registered to complete their Ph.D.
- ❖ Recruitment of faculty with Ph.D. from premier Institutions in specialized area/industry expertise.

LTG 4. To introduce new UG and PG Programs and enhance the intake of existing programs.

- ❖ Explore the possibilities of adding new UG and PG programs (based on the availability of resources and industry demand).
- ❖ Enhance intake across programs depending upon the demand.

LTG 5. To make use of technologies for providing skill sets and additional self-learning.

- ❖ Adopt digital learning, e-learning solutions, and interactive sessions.
- ❖ Encourage self-learning techniques.
- ❖ Adopt blended learning to maximize student learning.

LTG 6. Strengthening the conduction of social activities.

- ❖ The College plans to increase the conduction of social activities to create strong connectivity with neighborhood Community through various departments and committees of the college.



SHORT TERM GOAL

STG 1. NAAC Accreditation & NBA Accreditation for all eligible programs.

- ❖ It is required to get all the eligible UG & PG programs accredited by NBA from time to time.
- ❖ To have accreditation status by NAAC from time to time.

STG 2. Strengthen the campus Facilities and Support systems.

- ❖ Augmenting the laboratories to stay relevant.
- ❖ Online access to material on website, to further augment library resources to meet the growing needs in academia and research.
- ❖ To upgrade the internet bandwidth to support the continuous utilization of the increased usage to cater to the entire campus including hostel requirements.

STG 3. Enhance the Output in Research and Consultancy.

- ❖ To enhance the quality of research publications by motivating faculty to publish in SCI journals.
- ❖ Focus on increasing the external funded research projects Research with international collaborations.
- ❖ Fostering Industry sponsored R&D projects.

STG 4. Introduce New UG and PG Programs.

- ❖ Explore the possibilities of adding new Programs by assessing the requirements in the emerging areas.
- ❖ The institute can plan to offer interdisciplinary programs.

STG 5. Improve teaching learning Process.

- ❖ Implement pedagogical innovations: OBE, active learning, open ended experiments. Extended classrooms (virtual class rooms): Lecture apturing.
- ❖ Blended learning: E-learning, virtual labs, MOOCs, Social learning.
- ❖ Comprehensive course implementation.

STG 6. Organizing Technical Events.

- ❖ Conduct events in cutting edge technologies and recent trends & developments across various domains.
- ❖ Conduct Seminars & Expert Lectures through professional bodies.
- ❖ Increase industrial visits and make it more accountable.



STG 7. Enhance Industry Institute Collaborations.

- ❖ Enhancing the number of MOUs with Industry and revisiting the existing MOUs based on its merits.
- ❖ Adjunct Faculty: Industry experts delivering part of the courses.