



Institutional Development Plan (IDP)

For

Fabtech Technical Campus College of Engineering and Research, Sangola.

Objective

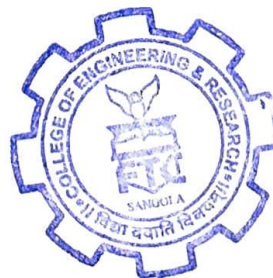
To strengthen the institution's academic and administrative structure post-NAAC 'A' grade accreditation and establish autonomy to enhance quality education and promote innovation, research, and societal impact.

Vision

“To become a globally recognized autonomous institution that fosters academic excellence, industry collaboration, and societal contributions through innovation and technology.”

Mission

1. To deliver quality technical education with a focus on innovative teaching and research.
2. To create an ecosystem for entrepreneurship, industry interaction, and skill development.
3. To encourage faculty and students to address societal challenges with technological solutions.
4. To achieve academic freedom to design a dynamic curriculum aligned with global trends.



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Strategic Goals for the Autonomous Transition

1. Governance and Administrative Reforms

- Form an Academic Council, Governing Body, and Board of Studies as per UGC guidelines.
- Build leadership and decision-making capabilities in administrative departments.
- Enhance transparency, accountability, and participative management through ERP systems.

2. Academic Excellence

- **Curriculum Design and Development:**
 - Develop a flexible, outcome-based curriculum tailored to industry and societal needs.
 - Incorporate emerging technologies like AI, IoT, Industry 4.0, and sustainability-focused electives.
- **Teaching and Learning:**
 - Adopt learner-centric pedagogy methods such as problem-based learning (PBL) and flipped classrooms.
 - Train faculty for advanced teaching methodologies and encourage certifications in specialized areas.
- **Assessment and Evaluation:**
 - Transition to continuous evaluation systems with a mix of formative and summative assessments.
 - Integrate open-ended project-based assessments and industry-driven case studies.

3. Research and Innovation Ecosystem

- Establish Research Centers of Excellence in key domains like renewable energy, AI-ML, robotics, and smart cities.
- Increase funding for faculty and student research projects and patent filing.
- Build partnerships with government agencies (AICTE, DST, DBT) and industries for collaborative research.

4. Industry-Institute Interaction

- Form an Industry Advisory Board to align academic programs with industry expectations.
- Promote internships, apprenticeships, and live industry projects for students.
- Organize industry conclaves, hackathons, and workshops with leading companies.



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5. Infrastructure Development

- Upgrade labs with cutting-edge equipment for emerging technologies.
- Modernize libraries with digital resources and online databases.
- Expand smart classroom facilities to enable hybrid learning environments.
- Invest in green infrastructure initiatives like solar energy systems and rainwater harvesting.

6. Student Empowerment

- **Skill Development:**
 - Launch industry-aligned certification courses and training programs.
 - Semester wise VAP, NPTEL Certificate Course.
- **Innovation & Entrepreneurship:**
 - Strengthen the IIC cell with a focus on conducting various activities as per IIC Calendar.
 - Organise and conduct Programs on Start-ups and Ecosystems etc.
 - Establish a dedicated centre for entrepreneurship and incubation
- **Placements and Career Guidance:**
 - Strengthen the placement cell with a focus on global placement opportunities.
 - Conduct career guidance seminars, resume-building workshops, and soft skill training.

7. Faculty Development

- Create a structured Faculty Development Program (FDP) to upgrade knowledge and skills.
- Encourage faculty to pursue higher studies, research collaborations, and certifications.
- Recognize and reward faculty for their contributions to research, teaching, and institutional growth.

8. Quality Assurance

- Establish an Internal Quality Assurance Cell (IQAC) to monitor and sustain quality improvements.
- Conduct regular academic audits and stakeholder feedback sessions.
- Set key performance indicators (KPIs) for continuous improvement.

9. Societal Impact and Community Engagement

- Launch outreach programs to address rural development, environmental challenges, and skill-building for the local population.
- Collaborate with NGOs and government bodies to implement impactful projects.
- NSS activities inside and outside campus for societal benefits



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Action Plan (2025-2030)

Year	Focus Areas	Key Activities
2025-2026	Academic Governance and Infrastructure Development	Establish governing bodies, modernize labs, and design autonomous curricula.
2026-2027	Research and Industry Collaboration	Establish Research Centers of Excellence and formalize MoUs with industries for projects and internships.
2027-2028	Faculty and Student Development	Conduct faculty training, introduce new certification courses, and expand placement partnerships.
2028-2029	Global Outreach and Accreditations	Seek international accreditation (ABET/NBA) and build global academic partnerships.
2029-2030	Community Engagement and Institutional Branding	Launch impactful societal projects and enhance the institution's global reputation.

Expected Outcomes

1. Increased academic flexibility and industry alignment through autonomy.
2. Enhanced student employability and entrepreneurial mindset.
3. Improved research output with patents, publications, and industry-funded projects.
4. Strengthened collaborations with industry and academia on a global scale.
5. Recognition as a premier autonomous institution in engineering education.



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