

INSTITUTIONAL DEVELOPMENT PLAN (IDP)

2025-2030

**Neotech Faculty of Diploma Engineering
(NFDE - 959)**

Neotech Campus, Vadodara
At-Virod, Harni-Virod Road,
Vadodara, Gujarat – 390022

INDEX

Sr. No.	Description	Page Number
1	Executive Summary	1
2	Institutional Profile	1
3	SWOC Analysis	2
4	Vision and Mission	4
5	Core Values	4
6	Strategic Goals and Objectives	4
7	Key Focus Areas	5
8	Action Plan / Implementation Strategy	5
9	Monitoring, Evaluation, and Risk Management	5
10	Budget and Financial Plan	6
11	Implementation Timeline (2025–2030)	6
12	Stakeholder Involvement	6
13	Expected Outcomes (2025–2030)	6

1. Executive Summary

Neotech Faculty of Diploma Engineering (NFDE), Vadodara, is an AICTE-approved institution affiliated with Gujarat Technological University (GTU), committed to delivering practical, skill-based diploma engineering education. The institute provides a supportive learning environment through qualified faculty, well-equipped laboratories, digital learning facilities, and an active training and placement cell.

NFDE focuses on preparing students for industry through outcome-oriented teaching, continuous mentoring, and strong industry interaction. With students largely drawn from rural and semi-urban backgrounds, the institution actively works on improving communication skills, employability, and overall confidence. Guided by its vision of inclusive and quality technical education, NFDE emphasizes academic integrity, innovation, sustainability, and student success, with a strong commitment to continuous improvement and community relevance.

2. Institutional Profile

Embedded in a legacy of technical education and skill development, Neotech Faculty of Diploma Engineering (NFDE), Vadodara, stands as a centre of practical learning, innovation, and opportunity. The institute upholds a strong commitment to academic quality, societal responsibility, and industry relevance.

Affiliated with Gujarat Technological University (GTU) and approved by the All-India Council for Technical Education (AICTE), New Delhi, NFDE maintains high standards of academic integrity and regulatory compliance. The institution delivers high-quality diploma engineering education with emphasis on hands-on learning, industry exposure, and employability. The curriculum bridges theoretical concepts with real-world applications, enabling students to develop technical competence, professional discipline, and confidence.

Education at NFDE extends beyond classrooms and laboratories. Through dedicated faculty, adequate infrastructure, and continuous student mentoring, the institute nurtures a learning ecosystem rooted in innovation, discipline, and integrity. NFDE empowers students not only to secure employment but also to build meaningful careers and contribute positively to society.

Diploma Programmes Offered (GTU):

- Diploma in Civil Engineering – 60 seats
- Diploma in Mechanical Engineering – 60 seats
- Diploma in Electrical Engineering – 60 seats
- Diploma in Computer Engineering– 120 seats

3. SWOC Analysis

Strengths

- Qualified and experienced faculty as per AICTE and GTU norms, ensuring effective curriculum delivery and academic monitoring.
- Adequate infrastructure including spacious classrooms, well-equipped laboratories, workshops, computer centers, and library facilities supporting practical-oriented learning.
- Functional Training & Placement Cell, industry interactions, and internship opportunities enhancing student employability.
- Active Institution's Innovation Council (IIC), NSS, technical clubs, and student support systems promoting innovation, teamwork, and social responsibility.
- Focus on skill-based education, hands-on training, and outcome-based learning aligned with industry requirements.

Weaknesses

- Limited communication skills, English proficiency, and professional confidence among some students from diverse educational backgrounds.
- Need for enhanced exposure to advanced technologies, modern equipment, and industry-grade software/tools.
- Scope for strengthening research, innovation projects, and participation in technical competitions at the diploma level.

Opportunities

- Introduction of industry-aligned skill development courses, certification programs, and apprenticeship training.
- Strengthening industry partnerships, live projects, and internship collaborations for experiential learning.
- Enhanced faculty development programs, funded projects, and consultancy activities.
- Stronger alumni engagement for mentoring, placements, and entrepreneurship support.
- Promotion of startup culture, innovation, sustainability initiatives, and community outreach aligned with NEP 2020 and Skill India mission.

Challenges

- Effective implementation of NEP 2020 reforms and outcome-based education in diploma engineering programs.
- Rapid technological changes and evolving industry skill requirements demanding continuous curriculum and infrastructure upgrades.
- Resource and funding constraints for modernization of laboratories, research, and innovation activities.
- Increasing competition from well-established polytechnic institutions and private training providers.

4. Vision and Mission

Vision

To be a leading diploma engineering institution that develops skilled, ethical, and industry-ready technicians to meet technological and societal needs.

Mission

- Provide quality, practice-oriented technical education.
- Strengthen industry-academia interaction for skills and employability.
- Foster professionalism, entrepreneurship, and social responsibility.
- Promote innovation and applied learning for industry and community needs.

5. Core Values

Academic excellence, ethical governance, innovation and entrepreneurship, industry-relevant skill development, social responsibility and sustainability, inclusiveness, and collaboration.

6. Strategic Goals and Objectives

- **Short Term:** Enhance academic quality, governance, and infrastructure with focus on skills and placement.
- **Mid Term:** Strengthen industry linkages, community engagement, and student-centric digital learning.
- **Long Term:** Ensure inclusive and flexible education while promoting innovation and applied research for sustained excellence.

7. Key Focus Areas

NFDE focuses on academic excellence through industry-aligned teaching, skill development, and digital learning, while promoting applied research, innovation, and entrepreneurship. Continuous faculty development, modern and sustainable infrastructure, strong industry collaboration, and effective student support systems enhance employability and leadership skills. The institution emphasizes digital transformation, green campus initiatives, global academic exposure, and integration of Indian Knowledge Systems to ensure holistic and value-based technical education.

8. Action Plan / Implementation Strategy

- Identify improvement areas through regular feedback from faculty, students, and industry partners.
- Focus on holistic student development by strengthening communication skills, confidence, personality, and industry-relevant competencies.
- Strengthen industry partnerships through MoUs for internships, placements, workshops, and expert sessions.
- Pursue government and external funding for research and innovation with societal impact.
- Organize hackathons and national-level events to promote creativity, problem-solving, and hands-on learning.

9. Monitoring, Evaluation, and Risk Management

Teaching-learning processes are monitored through structured lesson planning and continuous evaluation, while student performance is tracked through attendance and academic results. Industry engagement is periodically reviewed with MoU partners. Risk management measures include digital readiness to ensure academic continuity during emergencies and implementation of campus-wide fire safety systems.

10. Budget and Financial Plan

Neotech Faculty of Diploma Engineering (NFDE) and its management are committed to supporting institutional goals through planned financial management. The institute primarily generates revenue from student fees and allocates funds for academic development, infrastructure enhancement, and student support initiatives. Adequate reserves are maintained to ensure financial stability and smooth implementation of institutional activities.

11. Implementation Timeline (2025–2030)

The IDP will be implemented in a phased manner over five years. Short-term initiatives will be undertaken during 2025–26, mid-term initiatives during 2026–28, and long-term initiatives during 2028–30, with periodic review and monitoring by the IQAC and institutional management.

12. Stakeholder Involvement

The Institutional Development Plan has been prepared through active participation of faculty, students, alumni, industry partners, and management. Continuous stakeholder feedback will guide implementation, review, and refinement of the plan to ensure relevance and effectiveness.

13. Expected Outcomes (2025–2030)

The implementation of the IDP is expected to result in improved student employability, enhanced communication and professional skills, stronger industry partnerships, increased student participation in innovation and entrepreneurship activities, effective digital transformation, and sustainable institutional growth aligned with NEP 2020.