Date: 07-03-2026

INSTITUTIONAL DEVELOPMENT PLAN

Name of the Institute	:	**Guru Nanak Institute of Technology**
Address	:	**Dahegaon, Opp. IOC Petrol Pump, Kalmeshwar Road, Nagpur 441501**
Affiliated University	:	**Rashtrasant Tukadoji Maharaj Nagpur Universit**
Autonomous Application Year	:	**2025-26**
Duration of IDP	:	**1-3 Year**

1. Introduction of the Institute:

Guru Nanak Institute of Technology (GNIT) is a renowned institution nestled in the heart of Nagpur, Maharashtra. Established in 2009, GNIT has consistently been a torchbearer of excellence in engineering and technology education. Our institute is committed to nurturing bright minds and preparing them to meet the challenges of the rapidly evolving technological landscape.

GNIT offers a wide spectrum of undergraduate and postgraduate programs, each meticulously designed to provide students with a robust academic foundation and hands-on experience. Our faculty members, a blend of seasoned academicians and industry experts, play a pivotal role in imparting knowledge and fostering innovation among our students.

Our sprawling campus is equipped with state-of-the-art laboratories, a vast library housing a treasure trove of resources, and top-notch sports and recreational facilities. These amenities create an enriching environment that fosters holistic development and learning.

Over the years, GNIT has proudly produced a stream of successful graduates who have made their mark in leading industries and organizations globally. We take pride in our rich legacy of achievements and accolades, a testament to our commitment to educational excellence.

At GNIT, we continue to strive for innovation and growth, and we welcome aspiring students to be a part of our journey towards a brighter future in engineering and technology.

Courses Offered (UG/PG/PhD)	:	Under Graduate (UG) & Post Graduate (PG)
Affiliation & Approvals	:	RTMNU / AICTE / DTE
Accreditation Status (NAAC/NBA)	:	NAAC (B+)
Student Intake & Departments	:	UG-360 & PG: 48
Institutional Achievements	:	NAAC Accredited PhD Research Center (Applied) Autonomy (Applied) New Cources MCA (Applied)

2. Vision & Mission:

Vision:

To emerge as a premier institution of engineering excellence, nurturing globally competent technocrats and innovators who contribute to nation-building through cutting-edge research, ethical leadership, and sustainable technological solutions.

Mission:

- **Excellence in Technical Education**
  Provide world-class engineering education combining theoretical foundation with practical expertise

- **Research & Innovation Hub**
  Create a vibrant research ecosystem fostering innovation and scientific temperament

- **Industry-Academia Collaboration**
  Build strong partnerships with industries for knowledge exchange and skill development

- **Entrepreneurship & Skill Development**
  Foster entrepreneurial mindset and develop industry-ready professionals

- **Social Responsibility**
  Inculcate ethical values and contribute to sustainable community development

- **Global Outreach**
  Achieve international recognition through quality education and research excellence

3. Present Institutional Status:

No. of Department	:	UG - 07 & PG - 04
No. of Faculty Members	:	91
PhD Faculty details	:	12
Infrastructures Facilities	:	Adequate
Laboratories & Library Resources	:	Adequate
Placement		35-50 %
Research Publication & Patent		18

4. SWOC Analysis:

❖ **Institutional Strength**

- The Institute has the advantage of an established brand name and better placement not withstanding market forces.
- Motivated faculty members and staff.
- Effective mentoring and proctoring systems.
- Effective curriculum implementation through structured action plans.
- Good physical and advanced laboratory infrastructure.
- Effective teaching and learning processes.
- Special tutorials for bridging the knowledge gap.
- All classrooms are ICT- enabled.
- Duly constituted research committee in place.
- Well thought-out research incentive policy in place.
- Conduction of value-added courses to enhance employability.
- Teachers' quality is monitored and maintained via online feedback collected from Stakeholders.
- Orientation/induction programmes for newly appointed teachers and newly admitted students.
- Adequate library resources, including e-resources.
- Optimal speed Wi-Fi enabled campus.
- Well maintained, clean, green, and ambient campus.
- Recognized NSS unit.
- Annual self-appraisal of faculty member and staff in place.

❖ **Institutional Weakness**

- The performance of students in competitive exams to be improved.
- Lack of funded projects.
- Low consultancy and industry interaction.
- Limited PG and inter-disciplinary courses.
- Limited exposure and experience of faculty members to industry.
- Limited networking with IITs, NITs, IISc and other premier institutes.
- Being affiliated institute having limited academic flexibility.

- Relatively low PG admissions.
- Very few externally funded research projects.
- Limited academic flexibility since adopting the curriculum from Rashtrasant Tukdoji Maharaj Nagpur University.
- Lack of interest among the students towards higher studies / Research

❖ **Institutional Opportunity**

- NBA Accreditation for all programs to be achieved
- Autonomous status to be achieved
- Enhancement of practical knowledge to generate resources for students from consultancy.
- Exchange the faculty and students program with the foreign universities to teach or conduct research.
- Promotion of research-funded projects.
- Programs in recent emerging technologies
- Potential contribution to economic development of the region.
- More innovative and collaborative research programs.
- Resource generation through the consultancy.
- To established incubation center for entrepreneurship development and start-up culture.
- More number of social relevant project to be taken up in corporation with cell established Unnat Bharat Abhiyan.
- Strengthen the Alumni Association to enhance the employability of the students.
- Govt/Non-govt funding for research project.
- Faculty & student exchange programme with National & Foreign Universities with the existing international Cell.
- Establishment of Centre of Excellence in all the Departments.

❖ **Institutional Challenge**

- The institution facing challenges in admitting quality students because of numerous engineering colleges.
- To get more research funding from external agencies
- Strengthening the research culture.
- Fewer students opted for higher studies.
- To build up more number of future entrepreneur from student Industry sponsored live project
- Motivate/Encourage faculty to undertake applied research

5. ACADEMIC DEVELOPMENT PLAN

Considering NEP 2020, Guru Nanak Institute of Technology, affiliated with RTMNU Nagpur, offers B.Tech and M.Tech degree programs. The institute designs its academic calendar for each semester and assigns courses to faculty members based on their expertise and interests. Before classes commence, teachers prepare individual lessons, which are then approved by the Head of the Department (HoD). The programs adhere to the Choice Based Credit System (CBCS), with courses categorized into professional core, professional electives, engineering sciences, basic sciences, humanities and social sciences, and

employability enhancement courses. To foster interdisciplinary learning and address the evolving demands of the global market, the institute organizes value-added courses, add-on courses, workshops, and seminars. Each program includes an open elective course, allowing students to explore multidisciplinary education by selecting a course from different streams. Following RTMNU University Nagpur guidelines, the curriculum incorporates mini-projects, major projects, site visits, in-plant training, and internships to facilitate experiential learning. As an affiliated institution, Guru Nanak Institute of Technology adheres to the entry-level qualification requirements and program duration stipulated by the university.

6. Faculty DEVELOPMENT PLAN

Strategies for Improving Faculty Quality in an Engineering Institution

To enhance the overall academic standards and professional competence of faculty members, institutions should adopt a comprehensive strategy that promotes higher qualifications, continuous learning, research involvement, and industry exposure. The following strategies can be implemented to improve faculty quality:

1. Encouragement for Pursuing Ph.D.

- Faculty members should be motivated and supported to pursue **Ph.D. programs** in their respective fields to enhance academic depth and research capability.
- The institution may provide **study leave, flexible workload, and financial assistance** for faculty enrolled in doctoral programs.
- Collaboration with reputed universities and research institutes can be encouraged for **part-time or sponsored Ph.D. programs**.

2. Faculty Development Programs (FDPs)

- Faculty members should regularly participate in **Faculty Development Programs (FDPs), workshops, seminars, and short-term training programs** organized by reputed institutions.

3. Promotion of Research and Publications

- Faculty members should be encouraged to undertake **quality research and publish research papers in reputed journals indexed in Scopus, Web of Science, and UGC Care List**.
- The institution provides **financial support for publication charges, conference registration, and travel grants**.

4. Industry Exposure and Collaboration

- Faculty members should be encouraged to participate in **industry exposure programs, industrial visits, internships, and consultancy projects** to understand current industrial practices.
- Collaboration with industries can be developed through **MoUs, joint research activities, and expert lectures by industry professionals**.

5. Performance Evaluation and Incentive System

- A transparent **performance appraisal system** should be implemented to evaluate teaching effectiveness, research output, and professional development.
- Faculty members demonstrating excellence in **teaching, research, innovation, and consultancy** may be recognized through awards, promotions, and financial incentives.

6. Adoption of Innovative Teaching Practices

- Faculty should be encouraged to adopt **modern teaching-learning methodologies**, including ICT-enabled teaching, project-based learning, and blended learning approaches.
- Continuous training in **digital tools, simulation software, and smart classroom technologies** should be provided.

7. RESEARTCH & INNOVATION PLAN

The institution is committed to promoting a strong culture of research, innovation, and knowledge creation among faculty members and students. A comprehensive Research and Innovation Plan has been formulated to strengthen research activities, establish recognized research centers, and increase the number of funded research projects from government and non-government agencies.

1. Establishment of Recognized Research Centers

The institution aims to establish **recognized research centers** in various departments to promote advanced research and interdisciplinary collaboration. These centers will focus on emerging areas of technology and engineering, providing infrastructure, laboratories, and research facilities required for high-quality research work. Faculty members with Ph.D. qualifications and significant research experience will guide research scholars and postgraduate students in carrying out innovative research. The research centers will also encourage collaboration with universities, research institutes, and industries.

2. Promotion of Funded Research Projects

Faculty members will be encouraged to submit research proposals to various **funding agencies such as AICTE, DST, UGC, SERB, and other government and private organizations**. The institution will support faculty members in identifying suitable funding opportunities and preparing high-quality research proposals. Financial incentives and administrative support will be provided for proposal submission and project execution. The goal is to significantly increase the number of **externally funded research projects** in the coming years.

8. INFRASTRUCTURE DEVELOPMENT PLAN

The institution is committed to strengthening its physical and academic infrastructure to support effective teaching–learning, research, innovation, and sustainable campus development. A comprehensive Infrastructure Development Plan has been formulated to upgrade existing facilities and create modern learning environments for students and faculty members.

1. Development of Smart Classrooms

The institution plans to gradually transform conventional classrooms into smart classrooms equipped with modern teaching aids and digital technologies. Smart classrooms will include interactive boards, LCD projectors, high-speed internet connectivity, audio-visual systems, and learning management systems to support ICT-enabled teaching.

2. Establishment of Advanced Laboratories

To support practical learning and research activities, the institution aims to establish advanced laboratories with modern equipment and updated technology in various engineering disciplines. The laboratories will be upgraded periodically with state-of-the-art instruments, simulation software, and experimental setups to meet the requirements of the latest curriculum and industry standards.

3. Development of Digital Library

The institution will strengthen its digital library facilities to provide easy access to academic resources. The digital library will include online journals, e-books, research databases, and institutional repositories to support learning, teaching, and research activities.

4. Innovation and Incubation Center

To promote creativity, entrepreneurship, and technology development, the institution plans to establish an Innovation and Incubation Center. This center will support students and faculty members in developing innovative ideas, prototypes, and startup initiatives.

5. Development of Green Campus

The institution is committed to creating an environmentally sustainable green campus. Various initiatives will be implemented, including tree plantation, landscaping, rainwater harvesting, waste management systems, energy conservation practices, and the use of renewable energy sources such as solar power.

9. INDUSTRY COLLABORATION

The institution has established several Memorandums of Understanding (MoUs) with reputed industries, academic institutions, and research organizations to enhance academic collaboration, research activities, and industry exposure for students and faculty members. These MoUs facilitate knowledge sharing, technical training, internships, and joint research initiatives.

1. Strengthening Existing MoUs

The institution will continuously review and strengthen the existing MoUs to ensure their effective implementation. Activities such as industrial visits, guest lectures by industry experts, faculty development programs, student internships, and collaborative research projects will be conducted under these partnerships. Regular monitoring of MoU activities will help in achieving meaningful academic and industrial collaboration.

Sr. No.	Organization	Date of MOU's	Duration (Years)
1.	KNR EDU service Pvt. Ltd.	10th March.21	2 Yrs.
2.	PSR Power Block & Bricks Services OPC Pvt. Ltd.	1st Oct.21	3 Yrs.
3.	IT Networks Info-system Pvt. Ltd.	1st Oct.21	Infinite Till Termination
4.	CAAD CAM Guru Solutions Pvt. Ltd.	4th Oct.21	3 Yrs.
5.	My Story Abroad Education Consultancy Pvt. Ltd.	4th Oct.21	3 Yrs.
6.	REVAT Network Academy Nagpur	4th Oct.21	3 Yrs.
7.	Mesh Matrix Solutions	5th Oct.21	3 Yrs.
8.	Indian Institute of Product Design & Manufacturing	5th Oct.21	3 Yrs.
9.	PNA Attorneys & Consultants	25th May.22	Infinite Till Termination
10.	TRUST System & Software (I) Pvt. Ltd.	6th Sept.22	3 Yrs.
11.	PLASTROOTS Waste Management & Solutions Pvt. Ltd.	26th Dec.22	Infinite Till Termination
12.	TECHICHRO (OPC) Pvt. Ltd.	14th Jan.23	3 Yrs.
13.	YOURSHTHATSEIOR PVT LTD.	4th Aug.23	3 Yrs.
14.	Exit Rank	27th Aug.24	1 Yr.
15.	Technospectra EdTech. Pvt. Ltd. (UniConnect)	25th March.25	Infinite Till Termination
16.	GIRI'S Tech Hub Pvt Ltd	14th Jan.26	1 Yr.

2. Upgradation and Expansion of MoUs

The institution plans to upgrade and expand its MoU network by establishing collaborations with reputed industries, research organizations, and academic institutions at national and international levels. These collaborations will focus on emerging technologies, skill development programs, research activities, and training initiatives.

3. Internship Opportunities for Students

The institution will actively promote internship opportunities for students through its MoU collaborations with various industries and organizations. Students will be encouraged to undertake summer internships, winter internships, and industrial training programs to gain hands-on experience and practical exposure to real-world engineering problems. These internships will help students develop technical skills, improve problem-solving abilities, and enhance their overall employability.

10. GOVERNANCE & QUALITY ASSURANCE

The institution follows a structured governance system to ensure effective academic administration, transparency in decision making, and continuous quality improvement. Various statutory and institutional bodies are constituted to strengthen academic planning, curriculum development, and quality assurance mechanisms.

1. Academic Council

The Academic Council is the highest academic body of the institution responsible for planning, implementing, and monitoring academic policies. It provides strategic direction for academic growth and ensures that the curriculum, teaching-learning processes, and evaluation systems meet the standards prescribed by regulatory bodies. The Academic Council reviews academic performance, approves new programs, and recommends improvements in academic activities to maintain high educational standards.

2. Board of Studies (BoS)

The Board of Studies (BoS) is constituted at the departmental level to design, review, and update the curriculum in accordance with emerging technological trends and industry requirements. The BoS includes subject experts from academia, industry professionals, and senior faculty members. The board is responsible for recommending syllabus revisions, introducing new courses, ensuring outcome-based education, and maintaining the relevance of the academic programs.

3. Internal Quality Assurance Cell (IQAC)

The Internal Quality Assurance Cell (IQAC) plays a crucial role in maintaining and enhancing the quality of academic and administrative processes in the institution. IQAC continuously monitors teaching-learning practices, research activities, infrastructure development, and student support services. It also promotes quality initiatives such as academic audits, feedback mechanisms, faculty development programs, and best practices to ensure continuous improvement in institutional performance.

11. CONCUSION

The proposed development initiatives reflect the institution's strong commitment to academic excellence, research advancement, and holistic institutional growth. Through strategic efforts in faculty development, research and innovation, infrastructure enhancement, industry collaboration, and effective governance, the institution aims to create a dynamic and progressive academic environment.

Dr. Sudhir N. Shelke
Principal