



## YEARLY STATUS REPORT - 2020-2021

<b>Part A</b>	
<b>Data of the Institution</b>	
<b>1.Name of the Institution</b>	GURU NANAK INSTITUTE OF TECHNOLOGY
• Name of the Head of the institution	Prof. (Dr.) Santanu Kr. Sen
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	03325233900
• Alternate phone No.	03325637929
• Mobile No. (Principal)	9432012683
• Registered e-mail ID (Principal)	principal_gnit@jisgroup.org
• Address	157/F, NILGUNJ ROAD, PANIHATI, SODEPUR
• City/Town	Kolkata
• State/UT	West Bengal
• Pin Code	700114
<b>2.Institutional status</b>	
• Autonomous Status (Provide the date of conferment of Autonomy)	29/02/2016
• Type of Institution	Co-education
• Location	Urban

• Financial Status	<b>Self-financing</b>				
• Name of the IQAC Co-ordinator/Director	<b>Dr. Sunipa Roy</b>				
• Phone No.	<b>03325233900</b>				
• Mobile No:	<b>9830751850</b>				
• IQAC e-mail ID	<b>head_ece.gnit@jisgroup.org</b>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="https://gnit.ac.in/aqar-inner1/">https://gnit.ac.in/aqar-inner1/</a>				
<b>4.Was the Academic Calendar prepared for that year?</b>	<b>Yes</b>				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://gnit.ac.in/academic-calendar/">https://gnit.ac.in/academic-calendar/</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>B</b>	<b>2.5</b>	<b>2019</b>	<b>11/12/2019</b>	<b>31/12/2021</b>
<b>6.Date of Establishment of IQAC</b>			<b>28/02/2014</b>		
<b>7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?</b>					

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Mrs. Suparna Karmakar	Short Term Training Program	DSTBT	01/02/2020	50000
Mrs. Bapita Roy	Green IoT for Green Environment	AICTE	29/01/2021	429000
Dr. Sunipa Roy and Dr. Kakali Bandyopadhyay	For conduction of International Conference	AICTE	21/06/2021	400000

**8. Provide details regarding the composition of the IQAC:**

<ul style="list-style-type: none"> <li>Upload the latest notification regarding the composition of the IQAC by the HEI</li> </ul>	<a href="#">View File</a>	
<b>9.No. of IQAC meetings held during the year</b>	<b>2</b>	
<ul style="list-style-type: none"> <li>Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?</li> </ul>	<b>Yes</b>	
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10. Did IQAC receive funding from any funding agency to support its activities during the year?</b>	<b>No</b>	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		

**11. Significant contributions made by IQAC during the current year (maximum five bullets)**

1. The Internal Quality Assurance Cell of the college has been continuously developing a system to enhance the academic and administrative performance of the institution and to uphold strategies for quality augmentation and Maintenance.

2. Expansion of Smart Classroom Facility and WiFi connectivity with high-speed bandwidth. Upgrading the Library Facility via professional collaborations and quality subscriptions.

3. Incorporation of Online Attendance, Routine, Online Courseware and up-gradation of the examination system, Online Answer Script Checking, etc.

4. Encouragement to obtain research funding, application for patents, publication in SCI/SCOPUS indexed journals.

5. IQAC in collaboration with IIC cell organized several entrepreneurship development programs to motivate students to build their own start-ups.

**12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:**

Plan of Action	Achievements/Outcomes
Analysis of the feedback from stakeholder	Feedback was collected from the different stakeholders and analysis had been done and action had been taken against those.
Result analysis	Result analysis of odd and even semesters have been done and it was compared with the previous semesters and that was placed in the meeting of IQAC cell. The gap analysis has been done and departments were requested to take necessary actions.
Curricular Planning and Implementation	Beyond curriculum Training (BCT) has been organized to increase the employability of the students. Event and Academic Calendars were prepared for smooth conduction of the academic and extra curricular activities.
Review of R & D Activities	Students along with faculty members took initiative to publish research papers in journals of repute, renowned

	conferences, and workshops. They also published patents and got several R & D grants from government as well as non-governmental organizations.
Analysis of Students Satisfaction Survey (SSS) 2020-2021	Questionnaires as prescribed by NAAC were given to the students and feedbacks were collected, analyzed, and reviewed by the external experts.
Review of AQAR prior to submission of NAAC	Meetings were conducted in presence of the Principal, several departmental HoDs, and external experts to review the status of the AQAR before submission.
<b>13. Was the AQAR placed before the statutory body?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	
Name of the statutory body	Date of meeting(s)
Academic Council	07/12/2021
<b>14. Was the institutional data submitted to AISHE ?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Year</li> </ul>	
Year	Date of Submission
28/06/2021	28/06/2021
<b>Extended Profile</b>	
<b>1. Programme</b>	
1.1 Number of programmes offered during the year:	9

<b>2.Student</b>	
2.1 Total number of students during the year:	2045
2.2 Number of outgoing / final year students during the year:	552
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	2013
<b>3.Academic</b>	
3.1 Number of courses in all programmes during the year:	122
3.2 Number of full-time teachers during the year:	158
3.3 Number of sanctioned posts for the year:	158
<b>4.Institution</b>	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	426
4.2 Total number of Classrooms and Seminar halls	44
4.3 Total number of computers on campus for academic purposes	810
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	572.39
<b>Part B</b>	

## CURRICULAR ASPECTS

### 1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The institute received autonomous status in the year 2016 from UGC. Subsequently, the institute ensures the main priority to the curricular development, framing/restructuring of appropriate syllabus for various programs and their proper implementation in line with its vision. The main focus is the emerging trends of the programs and industry requirements, both from national and global point of view and to cater the local needs and to realize the core values.

For that purpose, the steps are followed as given below.

- Formation of Curriculum and Syllabus Committee
- External Experts from Academia and Industry have participated
- Specialized core committee for individual department is formed
- Comparative Study on existing syllabus is done
- Stakeholders' feedback is taken
- Curriculum Structure and syllabus are proposed for each program
- It is presented and approved through Departmental BOS first, and then through the Academic Council after necessary modifications in each stage, if suggested any
- It is then presented to the Board of Governors for their recommendation
- It is finally submitted to the affiliating university (MAKAUT).

Following AICTE 2016 regulation, institute's Credit Based Semester System has offered 06 UG and 03 PG programs. Accordingly, as per

academic calendar, lesson plan and framed time table, faculty members conduct theory and laboratory classes. Interdisciplinary papers as electives, value-added courses, entrepreneurship and skill-development courses are offered during their academic session. Participation of external academic and industry experts along with institutional subject teachers standardize the entire teaching-learning process and make students aware of important issues such as Values and Ethics in Profession, Environment and Sustainability, Economics for Engineers etc. Assessment of student performance, both internal and external, throughout the semester is finally integrated to achieve the Course Outcomes, Program Outcomes, and Program Specific Outcomes.

As per AICTE regulation of 2018 and guidelines, institute has revised and updated the curriculum and the syllabus in 2018 reducing total credit for each program from 190 to 160. The current curriculum and syllabus have been designed keeping focus on the holistic development of the students and make them industry ready. Open Elective Courses, Massive Open Online Courses, have been introduced as per choice based credit system to expose the students to beyond curriculum courses. Innovative activities and project-based learning have been introduced in every semester to engage them in practicing real life applications to enhance their research and creative expertise. Inclusion of co-curricular activities also enrich the curriculum.

After a gap of 1 year due to COVID-19 pandemic, the curriculum and syllabus is again under scrutiny in line with AICTE model curriculum requirement before implementing from 2021.

The institute has a central online students' feedback system for the teachers. Students' and Alumni feedback, Teachers' and Employers' feedback on curriculum and Parents' feedback on infrastructure monitor the current practices and their implementation with the provision of improvement, if suggestions come.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	<a href="https://gnit.ac.in/co-po-pso/">https://gnit.ac.in/co-po-pso/</a>

### 1.1.2 - Number of Programmes where syllabus revision was carried out during the year

9

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

122

File Description	Documents
Curriculum / Syllabus of such courses	<a href="#">View File</a>
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	<a href="#">View File</a>
MoUs with relevant organizations for these courses, if any	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 1.2 - Academic Flexibility

### 1.2.1 - Number of new courses introduced across all programmes offered during the year

122

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

### 1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

9

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

### 1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

Our curriculum encourages students to explore many disciplines and to develop a deep understanding of one area of concentration. Academic success is the key to laying the foundation for the students and therefore GNIT emphasizes quality of academic delivery in their stride towards excellence. GNIT offers various courses like CSE, ECE, IT, EE, FT, AEIE & MCA. Since 2016 GNIT offers Value-added subjects like Values & Ethics in Profession, Environment and Ecology, Mandatory course (NSS), Behavioral and Interpersonal Skills, Social Awareness. Values are basic and fundamental beliefs that guide or motivate attitudes or actions. They help us to determine what is important to us. Values are essential to ethics. Ethics is concerned with human actions, and the choice of those actions. Ethics evaluate those actions and the values that underlie them. Outcomes are the foundations of decision making, clarifying rules for academic publication, motivating others to understand values, examining the pressures of the current business environment, identifying consequences of unethical behaviour, establishing a culture that reinforces the integrity and many more. Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem-solving. Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems. Since 2018 GNIT offers another value-added subject Professional Ethics encompassing the personal and corporate standards of behaviour expected by professionals. All these subjects play a significant role in the holistic development of our students.

Our education delivery system doesn't stop at the classroom door. We have customized programs to enhance skills like SSD (Soft Skill Development), TSD (Technical Skill Development) and BCT (Beyond Curriculum Training) among students. Such programs help our students to grow holistically. GNIT stay ahead of the curve by getting exposed to outstanding teaching and innovative leadership program,

which ensure that the students are business ready and are prepared to deliver quantifiable results from day one. We nurture industry-institute interaction, by organizing and coordinating frequent Aptitude tests, Industrial visits in-plant training and projects of industrial relevance for the students, with the sole aim of zeroing down the gap between the Industry and Academia.

National Programme on Technology Enhanced Learning (NPTEL) and Massive Open Online Courses (MOOCs) these courses play a significant role in student and faculty developments. GNIT has also significantly reinforced its outreach initiatives by facilitating faculty development programmes, knowledge exchange sessions, and procuring funded projects from Government to foster synergy between academia, business, industry and the community. GNIT offers global standard initiatives and innovations undertaken by both the faculty members and the students to enrich and enhance the teaching and learning process.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	No File Uploaded

### 1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

3

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 1.3.3 - Number of students enrolled in the courses under 1.3.2 above

470

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.3.4 - Number of students undertaking field work/projects/ internships / student projects**

160

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.4 - Feedback System**

**1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni**

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://gnit.ac.in/feedback/">https://gnit.ac.in/feedback/</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	No File Uploaded

**1.4.2 - The feedback system of the Institution comprises the following**

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://gnit.ac.in/feedback/">https://gnit.ac.in/feedback/</a>
Any additional information	No File Uploaded

**TEACHING-LEARNING AND EVALUATION**

<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment of Students</b>	
<b>2.1.1.1 - Number of students admitted (year-wise) during the year</b>	
476	
File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>
<b>2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)</b>	
95	
File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>
<b>2.2 - Catering to Student Diversity</b>	
2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.	
<p><b>Context :</b></p> <p>There is a broad mix of students from English-medium and vernacular medium schools enrolled in the B Tech engineering courses who need to be made employable and industry-ready. Students from vernacular-medium backgrounds need additional training to acquire the skills in corporate etiquette expected by recruiting companies</p> <p><b>Training Needs Analysis (TNA):</b></p> <p>The predominant needs for training and development are in the following areas:</p> <ul style="list-style-type: none"> <li>• Mathematical and data analysis abilities</li> <li>• Problem Solving, logical and critical reasoning</li> <li>• Verbal Ability–English-specific, GD and PI</li> <li>• ICT skills, programming and software-domain specific training</li> </ul>	

These training needs are met through Aptitude and Soft Skills training, Technical Training sessions and workshop-based short term training sessions on software-specific skills. Training is provided by in-house faculty members having subject expertise in these areas. Hands-on training by external experts is also provided at regular intervals.

#### Baseline Trainability and Performance Appraisal:

Students undergo Diagnostic Tests in core subject areas like English, Mathematics, Physics and Chemistry at their entry-stage during the commencement of their 1st Year B. Tech course. Performance indicators in these tests are carefully noted by subject teachers and their subsequent development is closely monitored.

Suitable remedial intervention is provided to weaker students and those who are underperforming in the regular class tests and semester exams. This is done in the form of Remedial and Tutorial classes, taken in successive semesters, where subject teachers provide remedial teaching in the designated subjects, sample worksheets and problem sheets, and take tests. In the Tutorial classes, the students in a particular batch are divided into tutorial groups and given subject-specific sessions on doubt clearing and intensive practice activities. The 3 weeks Student Induction Programme (SIP), conducted in the beginning of the 1st Year B. Tech course, also has exposure to the industry through Industry Mentor meets,

#### BCT: Regular Training in Aptitude, Soft Skills and Reasoning Abilities:

The Institution has also implemented Beyond Curriculum Training programs (BCT) and embedded them into the curriculum. During the 3rd and the 7th semesters, training is imparted in Soft Skills and Verbal Ability, forming a part of the preparation for placement tests. Modules in Quantitative and Logical Aptitude, Verbal Ability and Analytical Reasoning are given, with in-house training in the workshop mode and mock-tests. This aids in preparing the students for the recruitment process, for entrance exams for higher studies and for other competitive examinations. Apart from training by in-house faculty, the third-party training partners (Myperfectice) also take care of providing online resources like online practice tests every week, and they also monitor the performance of the students in the online tests.

#### Advanced Training—GATE and other entrance-specific training:

Advanced training is also provided, to the students who are suitably meritorious, in various engineering and management entrance exams in higher studies like GATE exams. They are given suitable intensive coaching in subject papers as well as practice tests and exercises. These classes are highly popular and the good performance of students in these tests testifies to the quality of the training imparted.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/bct/">https://gnit.ac.in/bct/</a>

### 2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
02/07/2020	2346	158

File Description	Documents
Upload any additional information	<a href="#">View File</a>

### 2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

In addition to the traditional teaching-learning methods, the institute is providing innovative student-centric methods such as (Seminar, Virtual lab, simulation, Video lecture, demonstration, Project-based learning, Blended learning, Peer-assisted learning, GD, MOOCS, Open book test, Prototype model Teaching method, Viva, Language lab, Technical report writing, Technical lecture presentation, E-content etc) to encourage Participative, Problem solving and Experiential learning.

#### List of Teaching Methods

Sl no

Name of teaching method

Sl no

Name of teaching method

1

Workshop(a)

13

Viva- voce(b)

2

Seminar(b)

14

Technical report writing(a)

3

Virtual lab(a)/ (b)

15

Technical presentation(a)

4

Simulation(c)

16

Internship(a)

5

Peer assisted learning(a)

17

Industry visit(a)/ (b)

6

demonstration (b)

18

NSS activity(b)

7

Project based learning (c) / (a)

19

Brainstorming (b)

8

Blended learning(b)

20

case study (b)/ (c)

9

GD(b)

21

Debate (b)

11

Open book test(c)

12

Prototype model (c)

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://gnit.ac.in/student-centric-methods-2/">https://gnit.ac.in/student-centric-methods-2/</a>

### 2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Teachers use ICT enabled tools including online resources for effective teaching and learning process

In GNIT, numbers of classrooms and labs are ICT enabled with projectors installed and the campus is facilitated with a high-speed wi-fi connection. Faculty uses different types of ICT enabled tools like Myperfectice, Google meets, Google classroom to interact with the students and also provides learning material, lab manuals assignments, etc. Online tests are also taken by the faculty and evaluations of answer scripts also been done. Secondly, Virtual labs and different open-source software are used to conduct simulations related to labs. Next, the online learning materials are complete with animations and simulations to enhance the efficiency of the teaching-learning process. Lab facility is used to create video lectures and upload inappropriate platforms for students to use as extra learning resources. Lab manuals are forwarded electronically prior to the starting of the experiment. 8. Online quizzes are regularly arranged to map the continuous evaluation process. IIT Virtual labs are also where faculty can check the individual practicals performed by students. An online tool called LMS is used where faculty can monitor students uploading the individual tasks given in the form of assignments. To teach mathematical subjects in online mode, teachers have used various online tools like-whiteboard in MyPerfectice, graphics tab, etc.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="https://gnit.ac.in/ict-tools-2/">https://gnit.ac.in/ict-tools-2/</a>
Upload any additional information	<a href="#">View File</a>

**2.3.3 - Ratio of students to mentor for academic and other related issues****2.3.3.1 - Number of mentors**

135

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

**2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution**

Guru Nanak Institute of Technology always follows a systematic approach to develop our students holistically. Our organized teaching process helps our students to grow completely. A lesson plan serves as a guide that a teacher uses every day to determine what the students will learn, how the lesson will be taught as well as how learning will be evaluated. Lesson plans enable teachers to function more effectively in the classroom by giving a detailed outline that they adhere to during each class. These routines help you maintain order and also help the students stay calm. If there is a set activity for every part of the day, students will be able to focus more on teaching and less on giving instructions and generally controlling the class. Routines or time plans can increase student confidence and comfort levels since learners know what is expected of them in different situations. Set routines are especially helpful when working with young learners and teens that need extra support in regulating their behaviour. An academic calendar is to keep students, faculty, and staff reminded of key dates throughout the academic semester and year. It can also be useful for prospective students, alumni, and parents as well. Our Academic Calendar represents planning of College, scheduled for the whole semester to make aware the teachers and students about important dates-driven information. The calendar talks about academic and non-academic activities in addition to cultural events. The sole purpose of incorporating an academic calendar is to improve the teaching-learning qualities, to finish the assigned task within deadlines and instill among teachers and students about the importance of professional standards. The calendar talks about examination dates. We use to conduct two unit tests before the end semester examination. This test gives us an idea of how our students are growing and developing especially in academics. Suppose any student has failed to perform well in their first unit test then they will

be having special classes to rectify their non-fulfilment. This process will be continuing till their successful especially in academics. Our teaching process helps our students to grow completely.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

### 2.4.1 - Number of full-time teachers against sanctioned posts during the year

158

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	No File Uploaded

### 2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

45

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

927

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	No File Uploaded

## 2.5 - Evaluation Process and Reforms

### 2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

4

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

#### Online Examination and Evaluation Process:

#### Question Papers:

Moderated question papers are uploaded to QPDS System 2 days before the examination. Question papers printing starts two hours before the commencement of the examination from QPDS with 3 steps verification.

#### Answer Script:

1. Answer script of 32 pages, Question Paper, and Solution key is uploaded to DVS portal for online paper checking.
2. COE approves the registered examiner and provides a unique ID for paper checking. For the first time, COE approves the MAC ID of the machine of each examiner and after that, the examiner can open the DVS evaluation portal by valid login credential through the OTP received in registered mobile number.
3. Examiner has put the marks of each question attended by the students and marked NA or 0 to the un-attempted questions. The system needs annotation on every page. After submission of the evaluated answer script, the result appeared. Examiner is not allowed to submit the script before 1 minute.
4. Similarly, Head Examiner evaluates the same answer script of all the papers.

#### Result Publication:

All internal marks are submitted online by the concerned teacher and the final marks have to be approved by the HOD and COE. After a complete evaluation of the answer scripts, TR sheets are generated and results can be published online.

#### Evaluation Process:

- Theoretical Paper: - Evaluation in 100 marks

The evaluation is done on the basis of End Semester Examination out of 70 marks, Internal Examination out of 30 marks which includes two Unit Tests, Assignments and Percentage of Attendance of the students.

- Internal Examination of 30 marks:

a) For Unit Test-1 the allotted mark is 15 and the allotted time is 1 hour. Out of 5 Short-Medium types 5 marks Question, 3 questions need to be attended.

b) For Unit Test-2 the allotted marks of 20 and the allotted time is 1 hour. Out of 5 Short-Medium types 5 marks Question, 3 questions need to be attended along with 5 MCQ questions of 1 mark each. The better of two unit tests of 15 marks and 5 marks of MCQ is finally considered.

c) For the Assignment the allotted mark is 5.

d) For percentage of student attendance the allotted marks is 5

- End semester examination of 70 marks distribution is as follows-

For the ODD/EVEN Semester Question the allotted marks if 70 and the allotted time is 3 hours. The number of MCQ Questions is 12 and the maximum marks allotted is 10, No. of Short-Medium type Questions are 5 and maximum marks allotted is 15(3nosX5marks) and, No. of Subjective type Questions are 5 and the maximum Marks allotted is 45(3nosX15marks).

- Practical /Sessional Paper: - Evaluation in 100 marks

Internal Assessment (40 marks): This part is evaluated continuous basis on the lab performance out of 35 marks and 5 marks for attendance.

End Semester Practical Examination (60 marks):40 marks for the laboratory experiment and 20 marks for viva-voce are allotted.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.ac.in/it-integration/">https://gnit.ac.in/it-integration/</a>

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The Institute switched over to Outcome-Based Education (OBE) in 2016 to impart education through a student-centric approach, to increase the students' employability and follow the outcome-oriented teaching-learning process. Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and Course Outcomes (COs) have been formulated for all the UG and PG programs. Programme Outcomes (POs) represent the graduate attributes formulated as per Washington Accord and adopted by the National Board of Accreditation. Programme Specific Outcomes

(PSOs) are specifically defined outcomes of the programme which the graduates have to acquire by the end of the programme. Program Outcomes (POs), Program Specific Outcomes (PSOs) of all the UG and PG Programmes have been disseminated to the stakeholders as follows:

- Display Media: All Laboratories, Departmental Corridors
- Electronic Media: [www.gnit.ac.in](http://www.gnit.ac.in)
- Communication Media: Orientation Program, Induction Program, Alumni meet, different Meetings, Mentor's Meet

Process of CO formation:

- Course Outcomes: COs (Course Outcomes) are statements that describe what students should be able to do at the end of a course. A number of course outcomes around to be 4 to 6 for a course. Course outcomes should be Specific, measurable, achievable. In a course outcomes statement, it is expected to have three components - (i) Performance (ii) Conditional (iii) Criteria. COs can be written using Blooms taxonomy action verbs

Process of PO formation:

- POs (Program Outcomes) are statements that describe what the students graduating from the programme should be able to do. POs are independent of all engineering programmes. i.e. it is common for all engineering programmes. The number of POs as defined by the NBA is 12

These COs are discussed and finalized in the Board of Studies (BOS) of the respective programmes. Correlation matrices are generated to link Courses with their outcomes, POs and PSOs. These matrices specify the correlation in terms of high, medium and low (3, 2 and 1 respectively) indicating the levels. The average mapping of Program outcomes for the given program is obtained by averaging the levels of mapping for each of the courses. Similarly the averaging is done for Program specific outcomes as well.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Link for additional Information	<a href="https://gnit.ac.in/co-po-pso/">https://gnit.ac.in/co-po-pso/</a>

### 2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

At Guru Nanak Institute of technology, the departments have prepared the curriculum by considering the POs of the corresponding program to certify mapping of all POs of the curriculum.

The COs of each course has been structured and mapped with corresponding POs.

To implement the Outcome Based Education in the Institute, the attainment of Course Outcome(CO) is evaluated through Direct and Indirect assessment tools. The result of the attainment of CO is used to evaluate the attainment of Programme Outcome(PO) and Program Specific Outcome(PSO).

#### CO Assessment Processes:

Department collects and prepares data to evaluate the attainment of Course Outcomes (COs).

Followings are the methods to find attainment of the COs:

Student's knowledge and skills from their performance in the

- Continuous internal assessment tests
- End semester examinations

These methods suggest verifying that: what students know and provide durable evidence of student learning.

CO attainment has been measured based on Cumulative Internal Examinations and end-semester examinations. Assessment of attainment for PO and PSO are carried out through the Direct method and indirect method.

The direct method is obtained through -

- Semester End Examination (SEE),
- Cumulative Internal Examinations (CIE), like a class test, slot test, assignment, presentation, report.

The indirect method is obtained through various surveys as follows:

- Alumni survey
- Student Exit (final year students) Survey
- Parent Survey
- Employer Survey
- Current student Survey.

The questions mentioned in the surveys are mapped to the POs and PSOs (on a scale of 1 to 3)

The responses and the mappings are used for the indirect computation of PO & PSO attainment

Measuring CO attainment through Cumulative Internal Examinations (CIE)

- CO attainments are measured considering assignments, class tests through CIE.
- CO attainment is obtained through Cumulative Internal Examination (CIE) and Semester End Examination (SEE).
- The attainment Level of courses is set as below by the program:
  - Target level 1: 50% students must score 60% and above
  - Target level 2: 70% students must score 60% and above
  - Target level 3: 80% students must score 60% and above
- Overall CO attainment is obtained considering 40% credit from CIE and 60% from SEE. i.e.,
- Overall CO attainment = 40% credit from CIE + 60% from SEE.

Overall PO & PSO attainment:

- The overall PO & PSO attainment computation is done by taking the sum of 80% of direct attainment and 20% of indirect attainment for each programme.
- Overall PO attainment = (80% of Direct attainment) + (20% of Indirect Attainment)
- The survey asks former students about their employment and further education, perceptions of institutional emphases, estimated gains in knowledge and skills, involvement as undergraduate students, and continuing involvement with the

Institute. This is helpful to see the attainment of the POs.

- Employer surveys are conducted for finding out whether the knowledge, skill and attitude learned from this institution are adequately satisfying their expectation or not.
- Exit student survey is important to understand the impact of training/knowledge they have gathered throughout graduation years and based on its strength and weakness of various value-added courses, pre-placement training and other issues are considered.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.ac.in/co-po-pso/">https://gnit.ac.in/co-po-pso/</a>

### 2.6.3 - Pass Percentage of students

#### 2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

548

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://gnit.ac.in/wp-content/uploads/2022/01/Annual-Report-2020-21.pdf">https://gnit.ac.in/wp-content/uploads/2022/01/Annual-Report-2020-21.pdf</a>

### 2.7 - Student Satisfaction Survey

#### 2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

<https://gnit.ac.in/sss/>

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy

for promotion of research which is uploaded on the institutional website and implemented

## 1. Preface

Cultivating top-quality scientific research may be a significant requirement for producing any fruitful innovation. The ultimate objective of Research & development (R&D) initiatives undertaken by religious leader Institute of Technology is to shape research careers and human potential, support to fortify the knowledge foundation and promote the creation of latest applications, likewise as societal impact of recent innovations. Institutional R&D Committee is accountable for monitoring overall performances of research engagements and to motivate teachers likewise as students for his or her collaborative involvement in several reasonable R&D activities. Guru Nanak Institute of Technology assures the integrity of scholarly inquiry that aims at helping students, scholars and faculty of religious leader Institute of Technology to achieve excellence and contribute to societal development. the college is committed to plugging an exploration culture among faculty and students to strengthen the foundation for future development of the Institution. The research policy of the college aims to promote scientific research of all learners; to know the vision and mission of the varsity and to identify research areas of academic, practical and socially relevant significance thus contributing to national development.

## 2. Objectives

The objectives of the policy include:

- To establish a system for research.
- To promote research, innovation and intellectual capital.
- To sustain research and publication.
- To take research findings to society.
- To establish links with national, regional and global institutions through MoU.
- To engage in consultancy and extension activities.
- To motivate the staff to utilize the talents towards enhancement of knowledge.

- To increase external funding for doing research by submitting proposals to Government and Non-government agencies.
- To implement research-based learning.
- To enter into research partnerships with other institutions.
- To ensure integrity, quality and ethics in research.
- To provide an accurate coordination of all research activities of the varsity and aligning these to the vision and missions of the school and
- national development goals.
- To promote interdisciplinary research and establish policies or involve external agencies/experts in such projects.
- To create an awareness about patents and property Rights and motivate them to use them for patents.
- To create an ecosystem for innovations including Incubation centre and other initiatives for creation and transfer of data

### 3. Promotion of Research

GNIT believes that researchers are free to choose the subject of their research, to seek support from any funding source for his or her research work, and to report their findings and conclusions. Principal Investigators of funded projects are rewarded with cash incentives. GNIT accords high priority recognizing the outcomes of research (publication, patent, and other recognitions).

Publications in peer-reviewed/ indexed Journals as well as those presentations made in Conferences/ Seminars/ Symposia are awarded a cash incentive. A successful research proposal is given assets for completing the research project.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/Promotion-of-Research.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/Promotion-of-Research.pdf</a>
Any additional information	<a href="#">View File</a>

### 3.1.2 - The institution provides seed money to its teachers for research

#### 3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

30000

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	<a href="#">View File</a>
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	<a href="#">View File</a>
List of teachers receiving grant and details of grant received	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

3

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.2 - Resource Mobilization for Research****3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)**

8.79

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.2.2 - Number of teachers having research projects during the year**

4

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.irins.org/">https://gnit.irins.org/</a>
List of research projects during the year	<a href="#">View File</a>

**3.2.3 - Number of teachers recognised as research guides**

13

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	<a href="#">View File</a>
Institutional data in Prescribed format	<a href="#">View File</a>

**3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year**

4

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	<a href="http://www.wbdstbt.in/">http://www.wbdstbt.in/</a> <a href="https://www.aicte-india.org">https://www.aicte-india.org</a>
Any additional information	<a href="#">View File</a>

### 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

#### 1. Preincubation

GNIT is working on igniting the ideology of starting own ventures amongst the students. The youth of today needs to be more inclined towards creating jobs rather than getting one. Therefore, to assist the students to become self-employed and create employment opportunities, the institute has come forward to provide support in every possible manner. For this purpose GNIT Pre-Incubation Cell has been setup in 2019 which is working as a catalyst for entrepreneurship development within the institute and also for other aspiring youth.

#### 2. EDC

Entrepreneurship is increasingly recognized as an important driver of economic growth of a country. Even Govt. of India has recognized the importance of entrepreneurship and has introduced programs like "Make in India" & "Start-up India". The aim of Entrepreneurship Development Cell (EDC) at Guru Nanak Institute of Technology is to develop and strengthen entrepreneurial qualities in the budding professionals who are interested in starting their own ventures. The College provides infrastructure and technical support to the students having innovative ideas to transform into new products and services for the betterment of the society. The EDC also assists all the aspirants with mentoring, planning and execution of their start up idea into a real business. The EDC has maintained a pool of Sponsors like banks, national entrepreneurship training agencies and suppliers, who are willing to aid budding entrepreneurs. Hence an Entrepreneurship Development Cell was constituted in the college with a dedicated team of actively working faculty who has an industry exposure along with some student representatives. Aspiring engineer entrepreneurs are groomed with the necessary inputs on how

to be a successful entrepreneur through workshops and seminars by eminent people from the industry. At GNIT, we encourage the students to consider self-employment as a career option, Institution Innovation Council 65 | Page providing necessary training in Entrepreneurship skills through standardized courses. The cell also organizes different activities and events from time to time to train and motivate the students on entrepreneurship.

### 3. Institution Innovation Council (IIC-GNIT) under MHRD

Institution Innovation Council (IIC-GNIT) had been constituted in our college in 2018 as per the guidelines of the Ministry of Human Resource Development Innovation Cell (MIC) Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs)' across selected HEIs. A network of GNIT's IIC has already been established to promote an innovation eco-system in the campus. Guru Nanak Institute of Technology has been awarded 5 star certificates and ranked highest in the eastern India.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/criteria_3.3.1.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/criteria_3.3.1.pdf</a>

### 3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.4 - Research Publications and Awards

#### 3.4.1 - The Institution ensures implementation

A. All of the above

of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year**

**3.4.2.1 - Number of PhD students registered during the year**

6

File Description	Documents
URL to the research page on HEI website	<a href="https://gnit.ac.in/wp-content/uploads/2021/06/GNIT-RESEARCH-DIRECTORY-.pdf">https://gnit.ac.in/wp-content/uploads/2021/06/GNIT-RESEARCH-DIRECTORY-.pdf</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year**

3.44

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.4.4 - Number of books and chapters in edited volumes / books published per teacher during**

**the year**

**0.42**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

#### 3.4.5.1 - Total number of Citations in Scopus during the year

**670**

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

#### 3.4.6.1 - h-index of Scopus during the year

**97**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.5 - Consultancy

#### 3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

**1.9**

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

**231953**

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	<a href="#">View File</a>
List of facilities and staff available for undertaking consultancy	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Students of Guru Nanak Institute of Technology are made aware of the moral and social obligations through the NSS unit (SFU) such as Distribution of Educational kit, hand sanitizer (made by GNIT Chemistry section), mask (made by BHM dept.), chocolates and sweets among the Sabar girl students from Belpahari, Jhargram, Preparation of Sanitizer for distribution among local people, during 2nd wave of Covid 19 pandemic in the locality, Student members of PRAGAATI distributed the essential commodities (Food, Medicines etc.) after the cyclone YAAS among the homeless people in addition to technical exhibitions. Student members of PRAGAATI also organised a visit to Sangbedan at Sovabazar, Kolkata , a home for differently-abled 51

and distributed food packets, chocolates, masks, sanitizers on auspicious occasion of Bengali New Year. Students were engaged in their social responsibility activities and distributed the essential commodities and food items to the needy people, badly affected during the COVID-19 lockdown. Students are also involved as Climate Counsellor for Green Revolution - Global certification programme by United Nations' Framework Convention on Climate Change (UNFCC).

For extension activities, college has received awards and recognitions from the Government/ recognized bodies like Young Warrior movement activated by the Ministry of Youth Affairs and Sports, CBSE, YuWaah (Generation Unlimited India), UNICEF India, and UNFCC.

Many programs like plantation, Swachh Bharath, blood donation camps, Earth Day celebration, Environmental Awareness workshops, World Environment Day, International Day of Yoga (IDY 2021), etc. were conducted in the last five years.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/3.6.1-Boot-camp.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/3.6.1-Boot-camp.pdf</a>

### 3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

4

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

8

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year**

980

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.7 - Collaboration****3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work**

282

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)**

8

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

**INFRASTRUCTURE AND LEARNING RESOURCES****4.1 - Physical Facilities**

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The institution is located beside B.T. Road Panihati (Kolkata) and a few minutes walking distance from Sodepur Station. Guru Nanak Institute of Technology has excellent infrastructural facilities spread over 23912.75 m<sup>2</sup>. The Institution has 47 laboratories, 43 classrooms, 06 smart classrooms, 01 Seminar Halls and 01 Auditorium with 280 seated capacity. All the classrooms, smart classrooms, seminar halls and many of the Laboratories are equipped with ICT facilities. The institute has an adequate computing device with 315 desktop computers among which 117 with the latest core i5/i7 processor, 4/2 GB graphic cards, sufficient 4/8 GB RAM and other resources and also it has 1 Server.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/4.1.1-With-front-page.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/4.1.1-With-front-page.pdf</a>

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The institution gives adequate importance to Sports and games. It has 10 acres of land for playfields. The department of Physical Education has enough facilities for both outdoor and indoor games. The college has 560 m<sup>2</sup> for indoor games such as Table Tennis, Squash, Billiard, Carom etc. Institute available its own Gymnasium facilities with several Cardio exercises equipment such as cross trainer, treadmill. Institute provide a 50 capacity auditorium for Yoga. To promote cultural events among students on the campus, cultural clubs were constituted by the college. It encourages the students to participate in District, State, National level, Inter-Collegiate and Inter-University cultural festivals. Different clubs are constituted at both department level and Institute level. Literary, Photography and Music clubs are available at the Institute level.

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

#### 4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

8

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

#### 4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

572.39

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	No File Uploaded

## 4.2 - Library as a Learning Resource

### 4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Guru Nanak Institute of Technology, Central Library has a spacious built-up area of 660.43 sq.mtr. with a sitting capacity of 100+100 (two shift) students with a qualified senior Library-in-Charge, Asst. Librarian, and supporting staff. The Library works from Monday to Friday 08:00 AM to 08:00 PM & 08.00 AM to 5.00 P.M on Saturday. The Library has 5,666 titles with 54,083 volumes of books (includes rare books 60 titles) and subscribes to E-Journals(205), E-Books(1,15,000) and also print newspapers & magazines, CD-ROMs Books & Journals(1,547), Project Books(72).The central library is equipped

with different types of learning resources. It also has reprographic facilities. Library uses Online Public Access Catalogue (WEB OPAC) to access library facilities through digital Library. It enables students to access remotely IEEE, NDLI, E-SODHSINDHU e-journals.

The college provides a book-lending scheme to the students with a full set of textbooks for a nominal semester payment. The library is fully computerized and the availability of any book in the library can be checked just by a click of the mouse.

The Library has a collection of Books, Periodicals CD-ROM's on Science and Technology and Humanities including Information Technology, Computer Science, Electronics and Communication, Electrical Engineering, Food Technology, Computer applications Applied Electronics and Electronics, Maths, Physics, Chemistry and English. Central Library supports departmental libraries in all departments.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/4.2.1-with-front-page.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/4.2.1-with-front-page.pdf</a>

**4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources**

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)**

21.44

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

#### 4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

##### 4.2.4.1 - Number of teachers and students using the library per day during the year

72

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The college campus has a well-established state of the art IT-infrastructure and facilities. The campus infrastructure was established with high speed leased line internet connection by two ISP and with a 1 Gbps single-mode fibre optic backbone network supplemented with intranet connection and also with Wi-Fi support various at the maximum area. Other IT services also included CCTVs, biometric devices, Learning Management System (LMS) by Hash Technologies, online assessments, access to online learning resources and so on. The College Campus has 24 hours power backup and standby facilities to provide 24/7 services. The institution has a separate system admin department to purchase, maintain and support entire I.T. infrastructure facilities like computer hardware, software, Wi-Fi and cyber securities, etc.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/4.3.1-with-front-page.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/4.3.1-with-front-page.pdf</a>

4.3.2 - Student - Computer ratio	
Number of Students	Number of Computers
2045	810
File Description	Documents
Upload any additional information	No File Uploaded
<b>4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus</b>	
A. 250 Mbps	
File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded
<b>4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing</b>	
A. All four of the above	
File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/4.3.4-wth-Front-page.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/4.3.4-wth-Front-page.pdf</a>
List of facilities for e-content development (Data Template)	<a href="#">View File</a>
4.4 - Maintenance of Campus Infrastructure	
<b>4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)</b>	
54.66	

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	No File Uploaded

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

There is a centralized maintenance section which is headed by a Maintenance engineer and supported by skilled technicians. This section takes care of the maintenance of infrastructural facilities which includes plumbing works, electrical, carpentry, masonry and sewage works. The section receives maintenance requirements from the departments and other sections and undertakes the necessary work following internal operating procedures under the directions given by the concerned head of the department. The housekeeping work of the college has been outsourced. An in-house System Administrator and a technician are appointed for the purpose of Maintenance of the building, computers and equipment. An electrician is appointed to supervise the well-being of electrical fixtures and electrical connections in the college. The college library has reprographic services and other essential services. ICT learning resources are available in the college.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

#### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

118

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

**5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year****197**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

**5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology**

**A. All of the above**

File Description	Documents
Link to Institutional website	<a href="https://gnit.ac.in/wp-content/uploads/2022/01/Capacity-building-skills-enhancement.pdf">https://gnit.ac.in/wp-content/uploads/2022/01/Capacity-building-skills-enhancement.pdf</a>
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year****201**

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of**

**A. All of the above**

**statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 5.2 - Student Progression

### 5.2.1 - Number of outgoing students who got placement during the year

201

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 5.2.2 - Number of outgoing students progressing to higher education

21

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	No File Uploaded

### 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

**5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year****12**

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**5.3 - Student Participation and Activities****5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year****19**

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution**

**The Student council leads the major student activities inside the institute through different Clubs.**

**The Clubs are as follows:**

- **Science Club Tech Club Mathematics Club**
- **Art & Designing club Literary Club Photography Club Music Club**
- **Sports Club Dance Club**
- **Environmental Club**
- **Community Connect Club (NSS Activities)**

**The students are the cornerstones of the institute. The members of the Student Council nominate the student representatives in the Disciplinary committee and Anti-Ragging committee. Besides the Student Council and Clubs, the students play a crucial role in the different statutory bodies and committees like Anti- Ragging committee and IQAC cell of the institute. In addition to this, each class has a Class Representative (CR) to popularize and coordinate**

the events within the class.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/01/Student-Council-MOM-2020-21.pdf">https://gnit.ac.in/wp-content/uploads/2022/01/Student-Council-MOM-2020-21.pdf</a>

### 5.3.3 - Number of sports and cultural events / competitions organised by the institution

13

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	No File Uploaded

### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association of Guru Nanak Institute of Technology has been registered under the West Bengal Societies Registration Act, 1961. Registration Number : 6893 of 2013 - 2014.

The Alumni Association of GNIT intends to engage and stimulate GNIT alumni network. I desire to work with our alumni members towards understanding and fulfilling the interests of our alumni and ensuring intensive connectivity services and reinforcing network. I hope that we will be able to facilitate academic and professional development, support and guidance to all the students for a more enriching and successful career and life.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.ac.in/wp-content/uploads/2022/01/Alumni-activity-2020-2021.pdf">https://gnit.ac.in/wp-content/uploads/2022/01/Alumni-activity-2020-2021.pdf</a>

<b>5.4.2 - Alumni's financial contribution during the year</b>	<b>E. &lt;2 Lakhs</b>
File Description	Documents
Upload any additional information	<a href="#">View File</a>
<b>GOVERNANCE, LEADERSHIP AND MANAGEMENT</b>	
<b>6.1 - Institutional Vision and Leadership</b>	
6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution	
<p><b>Vision of the Institution:</b></p> <p>To ignite young minds with creativity and empowering lives and educate them to produce a galaxy of young professionals of outstanding ability who can become leaders in their profession and responsible citizens who can meet the challenges faced by the society.</p> <p><b>Mission of the Institution:</b></p> <ul style="list-style-type: none"> <li>• To meet the demands for skilled manpower on a global basis in the field of engineering, technology and management.</li> <li>• To inculcate amongst the students and inspire them to take up higher studies and research.</li> <li>• To impart high quality education by providing the ambience needed for developing requisite skill for excellence in education and industry.</li> </ul> <p><b>Perspective Plans:</b></p> <ul style="list-style-type: none"> <li>• The institute plans for enhancing the quality of Teaching-Learning by forming advisory committee consisting of experienced professors and associate professors who can guide the junior faculty members and also by providing different online and offline communication platforms where the faculty and students can share their views and experiences with everyone in a very easy way and can also suggest some new methodologies.</li> </ul>	

- Institute also promotes the Research activities undertaken by the staff and students, to all the stakeholders, thereby encouraging all in the research works. The institute also provides many types of appreciations for quality research work.
- The institution provides facilities to arrange various national and international conferences and seminars so that all the stakeholders can be made aware of the new research trends and activities and can also get a platform to interact with many researchers and academicians.
- The institution takes necessary initiatives to improve Entrepreneurship development and Industry-Institute-Interaction by signing MoUs with various industries and academic institutions, student exchange programs, faculty exchange programs, seminars, workshops etc.
- The institution is always associated with different kinds of Extension and Outreach activities to fulfil its institutional social responsibilities (ISR).
- The institute always tries to improve its internal quality and sustainability.

Participation of the teachers in the decision making bodies:

- Faculty members are present in all decision making bodies of the institution namely, Board of Governors, Academic Council, Board of Studies, IQAC etc. Two senior faculty members have been nominated as members of BOG. All the professors and Head of the Departments are the members of the Academic council. All the HODs along with some other faculty members are associated with IQAC. All the faculty in the department are represented in their respective BOS. Each and every faculty member of all the departments are associated with the mentoring activities, which is monitored by the respective head of the departments and finally by the head of the institution. Most of the faculty are also members of various other committees' viz., Anti Ragging, Grievances Redressed, Industry-Institute Interaction etc., which have been constituted with specific functions and responsibilities in mind. The minutes of the meetings of the BOG are circulated via the official mail, so that every faculty member can be made aware of it. The minutes of the meetings organised by

other Committees are recorded and circulated to the concerned. Faculty members are also associated with various co-curricular and extracurricular activities like cultural events, sports, Debates, Quiz, Technical Model presentations, Technical exhibitions etc.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/6.1.1.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/6.1.1.pdf</a>

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The Guru Nanak Institute of Technology(GNIT) has a practice of participative management at all levels of decision making. It gives all employees and stakeholders a chance to be involved in the decision-making process. The decentralized governance paradigm may be seen in every field, including academics, finance, and administration. All issues are debated and decisions are taken based on the suggestions of several Statutory and Non-Statutory committees, which include teaching and non-teaching personnel, students, parents, alumni, and the employer, among others.

**Practice of Participative Management and Decentralization:**

From time to time, top management has delegated financial, administrative, and academic authority to the Principal, faculty members, and administrative personnel. They have planned and implemented both quantitative and qualitative parameters through decentralization and participative management since the institute's foundation. Decentralization and delegation of powers are efficiently achieved with the help and cooperation of the BOG, which has established statutory and non-statutory committees such as the Academic Council, IQAC, NSS, Anti-Ragging, and so on. The following are some examples of decentralization:

**Administrative Decentralization-** The Principal of the Institution is in charge of all administrative and academic functions. The Principal and the Internal Quality Assurance Cell provide guidance to the Heads of Departments. The Registrar, Dean of Research and

Development, COE, Librarian, and other faculty and staff members serve on several academic, administrative, and non-statutory committees. Non-teaching personnel play an important part in the day-to-day operations. They are in charge of meeting and exceeding operational and strategic goals. To ensure the institute's smooth operation, all members meet on a regular basis to debate and take the required actions to design and implement the institution's strategic plan. Academic Decentralization- Academic decisions on the introduction, reformulation, and teaching approaches are made by the Academic Council after feedback from the relevant faculties and departments. At the faculty and department levels, there are bodies such as the Board of Studies, Academic Committee, Research Committee, and others that work together to make academic and research-related decisions. The participatory nature of Institute management is reflected in the composition of these organizations.

Financial Decentralization- Finance is one of the institute's most important components, and the Finance Committee is in charge of overseeing and formulating all of its actions. The Head of the Institute, in conjunction with the various bodies, the Registrar, and the Heads of the Departments, makes all major decisions. The Financial Autonomy is reflected in the authority delegation spread among the many levels of hierarchy, such as the purchase of books, the procurement of equipment, the hiring of transportation, and the payment of registration fees for attending FDPs, Seminars, and Conferences, among other things.

By incorporating academics and staff members in numerous activities, the institute consistently supports a culture of participative management and decentralization. An extra paper includes a case study illustrating the degree and scope of powers in financial decentralization.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.ac.in/strategic-plan/">https://gnit.ac.in/strategic-plan/</a>

## 6.2 - Strategy Development and Deployment

### 6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The institute has a well defined Strategic Plan, formulated keeping key focus on the Institute's mission and vision. The strategic goals of this Plan are to

Strategy#1: To establish better academic practices and procedures.

Strategy#2: To be a choice for good quality students and competent faculty.

Strategy#3: To produce technically competent and ethically strong graduates.

Strategy#4: To encourage Research & Consultancy.

Strategy#5: To develop a smart campus.

Strategy# 1 is detailed below:

The tasks involved for this strategy are

1. Revision of curriculum & academic regulations
2. Revision of examination regulations & procedures
3. Introduction of best practices
4. MoUs with industries and research institutions
5. Self and Collaborative Learning Initiatives

The institute was conferred with autonomy status by UGC and Maulana Abul kalam Azad University in the year 2016. The conferment of autonomy helped in revision of syllabus and also in introducing reforms in the examination pattern and assessment. This facilities the institute to frame a syllabus and curriculum towards the outcome based education. This also facilitated the institute to introduce new courses such as Technical Skill Development Courses, Mini projects, courses related to Communication skills, Soft skills. The introduction of the courses and the activities helped in improving communication and technical skills of the students and in turn their

placement opportunities and preparing them for higher studies. The academic and non-academic reforms are a continuous process under autonomy and are being implemented progressively. New laboratory courses have been introduced programs to enhance the understanding levels of the students. IN the year of 2018, the curriculum was revised as per the guide line of AICTE. The credit was reduced, the concept of open electives was introduced, many new subjects related to the recent trends like IoT, Machine learning, Python Programming have been introduced in the curriculum. The pattern of question paper for continuous internal evaluation was revised incorporating Blooms Taxonomy levels. MoUs have been entered into with various industries for the purpose of internships, guest lecturers for students, faculty training, consultancy and research. The students are being asked to get certificates from agencies such as NPTEL, Course era, Tedex, Swayam etc to enhance their knowledge. Self learning initiatives have been introduced through teaching learning methodology. The Institute frames the curriculum incorporating the views from all the stake holders and the industry persons. This is done by taking extensive feedback from them and then analyzing the feedback. After that the syllabus is passed through the BOS at the department level and Academic Council at the institute level.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/strategic-plan/">https://gnit.ac.in/strategic-plan/</a>
Upload any additional information	<a href="#">View File</a>

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The institution was established in the year 2003. To begin with, the institute offered four undergraduate engineering programmes and looking at the necessity for technological growth of the country and the institution, another two undergraduate engineering courses, two post graduate engineering courses, bachelor of Hospital management, undergraduate and post graduate course of computer application were introduced.

The Institute under has its own Managing Committee. The Governing Body or Board of Governors (BOG) is constituted as per the

provisions of UGC as part of autonomy. The Board of Governors consists of Chairman, UGC nominee, nominees of Management, members representing academic excellence, industry and faculty, nominees of affiliating university and State government. The Principal is the Member Secretary for BOG.

The policies and procedures on academic matters are taken care of by an Academic Council. This consists of Principal as the Chairman, Dean Academics, all Heads of the Departments, representatives of industry, and university nominees as members.

Each department in the institute is headed by a Head of the Department who in turn functions

taking the guidance from Principal and Board of Studies which formulates the curriculum for the undergraduate and post graduate Programs. The Board of studies is constituted for all the programs of study. The composition of Board of Studies includes experts from academia, industry and alumni for which the Head of the Department functions as the Chairman.

Support facilities are provided for smooth functioning of the institute by Finance, Administration, Learning Resource Centre, Computer Centre, Physical Education, Maintenance Cell (both Civil and Electrical) in addition to Security services.

Various committees such as Anti-Ragging Committee, R&D Committee, Finance Committee,

Purchase Committee, Professional Bodies Committee, Grievance committee, etc., have been constituted at the institute level involving faculty and students for smooth functioning of the institution. All these committees function under the overall guidance of the Principal.

An Administrative Manual is in place for the employees of the institute. This manual details the duties and responsibilities of various categories of employees working in the institute, leave rules, code of conduct, qualifications for recruitment and scales of pay of various categories of employee and Promotion Policy, etc.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://gnit.ac.in/wp-content/uploads/2022/01/Organogram-GNIT.pdf">https://gnit.ac.in/wp-content/uploads/2022/01/Organogram-GNIT.pdf</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

### 6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The institute takes care of the human resource by providing various professional and personal welfare schemes.

For Professional growth welfare schemes:

- Academic leave (limited) with full pay for pursuing higher studies.
- Registration fee, Dearness allowance, travel grants for teaching and non-teaching staff for attending various conferences, workshops and skill development courses.
- Support is provided for the faculty members to present technical papers in international conferences through international travel grant, and dearness allowances etc.

- Seed money grant for pursuing minor research activities and supporting for experimental setup to pursue PhD. This was incorporated in the policy of incentives to the faculty.
- Faculty are provided incentives for publications of textbooks, for publishing professional/academic/technical articles in relevant engineering discipline.
- Financial support is provided to the faculty for obtaining the patents in their relevant fields.
- Faculty are encouraged to take up consultancy activities by providing sharing of revenue in consultancy projects.
- Permission to faculty to deliver guest lectures at other institutes
- Visits to industry and higher learning institutes for knowledge acquisition / sharing
- Creating facilities to pursue research activities with modern facilities.
- Provision of Digital boards in some classrooms and remaining class rooms are equipped with LCD for facilitating the faculty to use latest technology for delivering the lectures effectively
- Advanced and licensed softwares are provided for enhancing the professional skill sets of the faculty.

**Personal Welfare measures:**

- Gratuity for both teaching and non teaching staff up to 20 lakhs has been disbursed to the retired or resigned employees
- Earned leave, Medical leave, Extraordinary leave, for both teaching and nonteaching staff
- Maternity leave for women staff was given
- Management contribution to Provident fund for both teaching and non teaching staff
- Extension of ESI benefits to non-teaching staff

- Medical allowances are given in monthly basis.
- Implementation of pay scales to teaching and non-teaching staff
- Availability of a Health Care Centre-- First Aid with all accessories are kept in the laboratories where moving machinery is installed and also at strategic locations.
- Emergency medical care and first-aid is available in the campus with doctor-on-call facility
- General medicines are made available in the centre.
- ATM Facility in the campus is made available which can be used by the employees during working hours.
- Availability of nationalized Bank for financial transactions within the campus.
- All staff both teaching and non teaching staff can avail sports facilities to improve their physical fitness.
- Staff amenity center is there within the college building for teaching and non-teaching staff.
- Interest free loan facility is available for teaching and non-teaching staff.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/6.3.1_Any-Additional-Information_GNIT.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/6.3.1_Any-Additional-Information_GNIT.pdf</a>

### 6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

29

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

### 6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

15

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	No File Uploaded

### 6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

112

File Description	Documents
Summary of the IQAC report	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 6.4 - Financial Management and Resource Mobilization

### 6.4.1 - Institution conducts internal and external financial audits regularly

An Internal Audit Team has been appointed by the Institution inside the organisation to go through regular Review and Vouching of everyday transactions, Physical Verification of Fixed Assets, Review and reporting on the Internal Controls and its adequacy and check on Statutory Compliances. This procedure is employed to evaluate an organization's functioning or the accomplishment of a process

against a number of standards, policies, metrics, or regulations. This audit contains inspecting internal controls around accounting, financial reporting, and IT general controls. Audit team inspects legitimacy and dependability of financial, accounting and other data and reports any variations. The Team organises audit as per their programme using tools and procedures and suitable techniques for checks at regular periods and calculates the efficiency of risk management procedures that are presently in place. The team Conducts analysis following with accreditation and diverged regulatory requirements. The Team accomplishes the audit as per the possibility and reports its verdicts to the Audit committee on quarterly basis. The Institution maintains its independency and does not obstruct in their audit functions.

The Institution has appointed External Auditors as per the statutory requirement. The External Auditor organizes audit in accordance with the Generally Accepted Accounting Policies, appropriate Financial Reporting Framework, Statutory Provisions and regulations, etc. The Auditor performs audit in accordance with the ethics on auditing published by the ICAI. Auditor conduct audit and pulls conclusion on the Financial Statements. Their key function is analysis of the legitimacy of financial data of the company to detect if there are any inconsistencies in the records because of scam, fault or fraud. It boosts the genuineness and trustworthiness of financial statements. It also analyses the entities accounts to display that they are correct and comprehensive. Another goal is to authorize that the accounting records obey benchmark exercises. An external audit also analyses financial statements, such as balance sheets to verify that they offer the entities of finances correctly. The particulars of audit carried out year wise are delivered.

The procedure of settling audit objections is given below:

The team evaluates the outcomes of an audit with management and external auditors, including matters essential to be conveyed to the team under usually acknowledged auditing standards. Controls over financial reporting, information technology security and operational matters come under the purview of the team. Audit committees meet individually with external and internal auditors to talk over stuffs that the committee or auditors think should be reviewed confidentially. The committee analyses suggested audit methods and manage synchronization of the audit work with internal audit staff. The conclusions of the Auditors are described to the Audit Committee of the Institution. The Audit Committee goes through the conclusions and gives comments/replies to it. The audit report along with the reply of the Audit Committee is re-examined by the Managing

Committee of the Institute and also the Governing Body of the Society, which has funded the Institute. Up to now, there have been no main faults/conclusions.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/6.4.1 Any-Additional-Information.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/6.4.1 Any-Additional-Information.pdf</a>

#### 6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

##### Mobilisation of Funds:

The key economic means for the Institute is by way of tuition fee. The tuition fee is predetermined based on the previous year's spending and the effect of the increase in the next three years. The institution supplies all the applicable particulars of the spending and plans for every three years to the State Fee Regulatory Committee which fixes the tuition fee of the Institute once in three years. While presenting the plans, the Institute also integrates increase in remunerations by way of DA, increments, etc. The Fee Regulatory Committee also delivers possibility for the Institute to assign capitals for the fund expenditure, which the Institute is plotting over the next three years. Hence, the major resource utilization depends on the fee fixation done by the State Fee Regulatory Committee.

The institute obtains capitals from AICTE for upgradation of amenities to eliminate outmodedness in the Laboratories / Computing

facilities if the application of the Institute is accepted under MODROBS. The institute has also a policy to organize capitals through consultancy, R & D projects from government funding organisations such as DST and DRDO, etc.

The institute obtained funding under TEQIP II, a world Bank aided project scheme through MHRD, Government of India during 2011-2017 as it is one of the top performing institutions, an extra amount of money was also authorised.

The Sponsoring Society, which also administers other educational institutions, offers monetary backing to the Institute for the deficit and confirms the readiness of essential capitals. So far, the Society has given monetary funding of Rs. 35.87 Crores.

Ideal utilisation of capitals:

A yearly budget is prepared to confirm ideal utilisation of economic capitals, based on the approximations obtained from the departments and functional units of the Institute. The sum is authorized by the Managing Committee/ Board of Governors. Monthly reports are prepared for revenue and spending.

Audit is carried out at regular intervals to make sure that the budget is optimally utilized for the reason it is envisioned. The properties in the form of amenities and tools are looked after to guarantee ideal functioning.

Yearly upkeeping agreement is in place for the tools and software.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/6.4.3_Any-Additional-Information_GNIT-1.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/6.4.3_Any-Additional-Information_GNIT-1.pdf</a>

## 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Incremental improvements made for the preceding five years with regard to quality (in case of first cycle)

Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives (second and subsequent cycles)

Describe two practices institutionalized as a result of IQAC initiatives:

1. Establishment of Academic Development Cell to ensure effective curriculum development, transaction and systematic assessment.

i. Formation of the curriculum and detailed syllabus is done based on the current AICTE and MAKAUT norms and is passed through the departmental BOS and finally by the BOG experts. Before formation of the curriculum, an extensive feedback from all the stakeholders including parents, alumni, industry persons and students are taken and their comments are incorporated into the curriculum as far as practicable. The curriculum is formed including mini projects in every semester to emphasis on project based learning, incorporation of more numbers of open electives to facilitate the students, incorporation of subjects related to the recent technological development and industry needs.

ii. An institution level academic calendar is prepared in line with Anna University. Based on this, department academic calendar is prepared

iii. Diagnostic tests are conducted at the entry level to assess the learner's knowledge in English, Mathematics and Basic Sciences Remedial courses are offered based on necessity.

iv. Course plan is prepared by faculty covering the topics, schedules, reference materials, teaching aids and methodologies. During the preparation of course plan, uniformity in content coverage and assessment is ensured. Lecture notes as well as Assistive materials on important topics made available on the web portal for students' reference.

v. Invited talks by eminent professionals from industry and academia, industry visits along with Value additions through industry powered laboratories are conducted for curriculum enrichment.

vi. Academic audits by the Academic Auditing Cell are conducted to ensure effective functioning of the academic system. Periodic Tutor-ward meetings, Class Committee meetings and End Semester review meetings are held to assess students' academic progress.

## 2. Establishment of IPR Cell:

The IPR cell has been established in the year 2016 with the objective of converting the lab to land projects into patent.

### Activities of IPR cell;

- Organizes various seminars and FDP on topics related to patent filing, patent searching
- Innovative projects are presented in the department level and top 3 projects are shortlisted and forwarded to IPR scrutiny committee
- IPR scrutiny committees reviews and performs patent search for viability
- Recommends the patentable projects to management for sponsoring the application fees and

consulting fees Legal terms viz. patent claim, 3D drawing, specifications are incorporated into the application for patent filing.

### Outcomes:

- 22 patents have been published by the faculty across various domains.

MHRD - Institution Innovation Council along with Idea & Innovation club organized various events like project expo, Hackathon, submission of Proof of Concepts (PoC) to bring out innovative ideas.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/02/6.5.1_Any-Additional-Information_GNIT.pdf">https://gnit.ac.in/wp-content/uploads/2022/02/6.5.1_Any-Additional-Information_GNIT.pdf</a>

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Institutional reviews and implementation of teaching learning reforms facilitated by the IQAC

### 1. Teaching learning process

The institution reviews its teaching learning processes, structure and methodologies of operations and learning outcomes at periodic intervals. Soon after becoming autonomous, the institution reviewed and found the different gaps in the Teaching learning process.

The gaps are:

- Skill development courses such as communication skills, soft skills and technical skills.
- Human values and professional ethics
- Focused courses on Entrepreneurship
- Theme based projects
- MOOC courses certification.

To overcome the gaps various new subjects have been introduced such as Soft Skill development course, Technical Skill development classes, IoT based courses, Values and Ethic course. In every semester, the students have to choose a subject from their curriculum on which they will do some hands-on projects. Students are being encouraged and given assistance to initiate different start-ups through their mentors. Faculty members as well as students are encouraged to undertake a certification course in each semester through leading agencies such as NPTEL, Course era, etc which will reinforce the lifelong learning skills. The faculty members and students who are successfully completing these courses are given

awards to appreciate their efforts.

## 2. Structures & Methodologies of operations

All the faculty members prepare an academic plan well in advance before the commencement of class work for the courses. Every faculty member maintains course file for each course being taught. Class Review Committee meetings are held with students to know the progress of course coverage, pedagogy practices and efficacy of the teaching learning process.

The Lecture record of all the faculty members is reviewed regularly to ensure uniform coverage of syllabus as per Lesson Plan. The internal question papers are audited regularly in the department. Course end feedback is collected from all the students on the content, coverage and evaluation of answer scripts for each course. The ICT facilities are reviewed from time to time for its improvement.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://gnit.ac.in/wp-content/uploads/2022/01/IQAC-MOM_20-21-1.pdf">https://gnit.ac.in/wp-content/uploads/2022/01/IQAC-MOM_20-21-1.pdf</a>

**6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)**

**A. Any 4 or all of the above**

File Description	Documents
Paste the web link of annual reports of the Institution	<a href="https://gnit.ac.in/wp-content/uploads/2022/01/Annual-Report-2020-21.pdf">https://gnit.ac.in/wp-content/uploads/2022/01/Annual-Report-2020-21.pdf</a>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

#### 7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Gender equity prevents violence against women and girls. It's essential for economic prosperity. Societies that value women and men as equal are safer and healthier. GNIT always ensures fairness of treatment for women and men, according to their respective needs. This may include equal treatment or treatment that is different, but which is considered equivalent in terms of rights, benefits, obligations, and opportunities. GNIT Women's Grievance Redressal Cell celebrates International Women's Day, celebrates the achievements of women. Our college encourages Self Defense & Fitness Programme for Girls. Our college has already arranged multiple sessions to train faculty members and students to understand better safety strategies in place to deal with potential assault or abuse and Secure Safety. GNIT always gives importance to safe guard and promote well-being of all women employees of the organization. Our college takes care of all complaints on sexual harassment of women at workplace and appropriate action taken for the complaints. The Grievance Cell is responsible for looking into any complaints filed by students & staff about women grievance at college. Here under this cell there are two committees, one for the faculty & staff members and another for the students. There are external members from outside the institute. Normally two meetings are held/year on regular basis. Additionally, meeting takes place if any issue occurs. In addition to regular issues like change in members, cleaning drive of girl students' women's wash rooms some special programs are already organized in the institute by the cell along with other departments.

These includes

- Discussions on legal issues (laws) related to women's interests
- Awareness Program on Visakha Guideline
- Awareness Program on Breast Cancer
- International Women's day celebrations
- Self - Defense workshop for women
- Debate competition on women's issues
- Essay competition on Women's role under COVID 19 pandemic
- WGRC Magazine
- Cervical cancer and distribution of sanitary pad
- Workshop on Self defense for women

Gender sensitization plan of action is settled on behalf of the institution year wise before the commencement of each academic year as per Institutional mission and vision. This consists of inclusion of gender equity and sensitization contents in curriculum as well as in co-curricular activities for all engineering courses. Our curricular is encouraging our students to enhance their knowledge in the field of Constitution of India and fundamental rights and Values and ethics in Profession. According to 2016 and 2018 curriculum, gender equity and sensitization issues are addressed in two papers Constitution of India and Values and Ethics in Profession. Our students are gaining knowledge about Indian constitution. As per 2016 and 2018 curriculum Values and ethics in Profession HU 702 (For EE, AEIE, FT), HU 802 (for IT), HU 302 (for CSE), HU652 (for ME) deals with human values in organization, code of professional ethics, whistle blowing and beyond. GNIT strictly follows Vishaka guidelines against sexual harassments in the workplace. GNIT maintain Girl's Hostel inside Campus, Ladies Toilet (staff and students), and Girl's common room properly.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://gnit.ac.in/gender-equity/">https://gnit.ac.in/gender-equity/</a>

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

**Waste management:**

The Institute implements effective waste management through waste segregation and recycling of the waste.

**1. Solid Waste management:**

Each and every department of GNIT as well as the administrative block create waste and dumped in small waste bin located in the department itself. The wastes are properly stacked in designated place and later disposed through vendors. GNIT discourages uses of in the campus. The biodegradable vegetable peels are collected in a separate bin to convert it to fertilizer to use for gardening.

**2. Liquid Waste Management**

GNIT takes an initiative to reuse this water. The waste water from AC is collected and are used for cleaning, gardening and toilet flushing. The safe disposal of liquid waste takes place from the washrooms to a big sewage pipeline from campus, waste gets collected to the municipal sewage connection.

**3. E-waste management:**

E-waste such as computers and its peripherals are upgraded regularly to continue usage and to avoid its wastage. They are collected and dump in a closed room and handed over to agencies which help recycle these materials. The electronic components and taking off the old parts make new products and is donating among the poor students of nearby school.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

**7.1.5.1 - The institutional initiatives for greening the campus are as follows:**

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	No File Uploaded

### 7.1.6 - Quality audits on environment and energy undertaken by the institution

<p><b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b></p> <ol style="list-style-type: none"> <li>1. Green audit</li> <li>2. Energy audit</li> <li>3. Environment audit</li> <li>4. Clean and green campus recognitions/awards</li> <li>5. Beyond the campus environmental promotional activities</li> </ol>	<p>A. Any 4 or all of the above</p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

<p><b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of</b></p>	<p>A. Any 4 or all of the above</p>
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**reading materials, screen reading, etc.**

File Description	Documents
Geotagged photographs / videos of facilities	<a href="#">View File</a>
Policy documents and brochures on the support to be provided	<a href="#">View File</a>
Details of the software procured for providing assistance	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Guru Nanak Institute of Technology (GNIT) provides quality education with holistic development, with programs promoting patriotism, social and environmental awareness, gender equality and human values. Universal and moral values are inculcated in all courses.

Bookfairs are arranged yearly by the College library and faculty members donate books. GNIT also participates in the Kolkata International Book Fair. Students participated in "Walk for the book" rally in National Library week of US Consulate General, Kolkata on 12 April, 2016. Intrinsically Bengali cultural events are observed annually, like Poila Baishak, Rabindra Jayanti and Baisheshrabon, Sharodiya Utsav and Bijoya Dasami. National festivals like Holi, Eid, Dipabali are celebrated on campus.

On 12th January, Swami Vivekananda's birth anniversary is organized, International Youth Day observed on 12th August and International Yoga Day on 21st June, to sensitize youth.

Environmental awareness through tree plantation drives, health awareness through programs on Swachhata, Infectious diseases, Blood donation camps, and social awareness through money and cloth donation to various organisations are arranged yearly.

On 26th November, a seminar on the Indian Constitution marks Indian Constitution Day.

Workshops on adventure sports highlight the importance of physical activity.

Classroom, lab and campus cleanliness drives instil in students a sense of communal responsibility.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Welfare activities have always been part of Guru Nanak Institute of Technology's program. The institute believes in imparting holistic learning, inculcating moral and ethical values and has involved itself in manifold activities to promote community development.

Observances of Citizenship Duties: The institute vigilantly observes basic citizenship duties. Independence Day and Republic Day celebrations, on 15th August and 26th January, take place with flag hoisting and singing of the National Anthem. Additionally, to inculcate the spirit of peace and harmony, Hiroshima Day (on 6th August) is observed, with tributes to the nuclear holocaust victims.

Donations to the underprivileged: The institute promotes the values of community service. On Diwali, clothes and sweets are gifted to the inmates of several nearby old age homes. During the pandemic, the Chemistry Section of ASHU Dept developed organic hand sanitizers in-house, which were distributed to all the service staff and other needy people. Students also donated to the Prime Minister's National Relief Fund, distributed masks, hand sanitizers and food grains. During the Amphan cyclone, they took part in relief camps in the Sunderbans.

NSS Student Activities: The 1st Year B. Tech students, under the aegis of the NSS program, have been offering service to the underprivileged sections of the community for more than a decade.

They have contributed to the educational needs of the economically backward sections by donating books and other educational materials. They gave textbooks, pencils and crayons to 60 underprivileged children of the No 1 Indira Nagar Sushanhatta Sishu Bikash Seba Prakalpa and assisted in buying books for New Delhi slum children through the Community Library Project (TCLP). Students and faculty members of ASHU have also distributed educational kits,

masks, sanitizers, chocolates and sweets among the Sabar girl students from Belpahari, Jhargram at Satyabharati Orphanage in Nabagram, Hooghly.

The students are also active in their support of orphans. They have donated money for the welfare of orphans to the Calcutta Orphanage, visited Gobinda Home orphanage, and distributed clothes and food packets there.

Support to charitable and welfare organizations By donating clothes and money to Bharat Sevashram Sangha (Gobardanga), the Ramkrishna Math and Mission, the Rahara Ramkrishna Mission Boys Home and the Ramkrishna Vivekananda Mission, Barrackpore students have aided support programmes for the distressed.

Working with NGOs like GOONJ and PRAGATI:

The students have also visited the GOONJ warehouse in Kolkata, and donated clothes and other materials for the needy.

Working conjointly with PRAGATI, the students have participated in donation drives, like blanket distribution among the needy.

Protecting the Environment and Ecosystem: Students have also helped in ecological conservation by donating to the World Wildlife Fund (WWF), India, taking part in a "Save Water" campaign and launching a "Plastic Free Campus" initiative. World Environment Day is regularly observed in June through tree plantation programs.

Cleanliness drives: Students have regularly taken part in cleaning of campus facilities and, along with staff participated in "Swachh Bharat Abhiyan".

The institute has been inculcating the values of tolerance, respect and sympathy for all irrespective of caste, creed, religious, ethnic differences and economic disparities through varied initiatives and programs hoping to create more socially aware citizens of tomorrow.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.10 - The institution has a prescribed code of conduct for students, teachers,**

A. All of the above

**administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized**

File Description	Documents
Code of Ethics - policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	<a href="#">View File</a>
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

**Institution celebrates / organizes national and international commemorative days, events and festivals**

Different national and international commemorative days and festivals the institute celebrates every year. Students and faculty members participates in the programs which inculcates the value of unity and significance of these days. Every year on 15th of August the Independence Day is celebrated with hoisting of the National flag. On 5th September all the students of the college celebrates the Teachers Day where They invite their teachers. Cultural programs are organised. It gives an opportunity to acknowledge the contribution of teachers in the society. Engineers Day is observed every year on the 15th day of September to feel address the crucial role and contribution of an engineer in the building of a society. The hardship and sacrifices made by the engineers for the development of the country in each and every field. On 20th September "Clean GNIT Mission" is organised to promote Swaccha Bharat Awiyaan. The National Unity day is observed every year on 31st October. On 21st February International Mother Language day is celebrated with cultural programs. Seminars are organised on 28th February every year to celebrate National Science Day. On 8th March

every year International Women's Day is celebrated to give tribute towards the extra ordinary contribution of women in the society, in the development of human race and in everyday life. The birth Anniversary of Nobel Laurette Rabindra Nath Tagore is observed as per the Bengali calendar. On 12th January the birth Anniversary of Swami Vivekanand is observed.

National Festivals like Dipavali, Christmas and Holi is also gets celebrated every year with lights , sweets, cakes, colours and candles in the college.

In the following list the events and the dates are mentioned:

Sl. no

National and International commemorative Days and festivals

Day of observation or celebration

1

Independence Day

15th August

2

Republic Day

26th January

3

Teachers' Day

5th September

4

Engineers Day

15th September

5

Clean GNIT Mission

20th September

6

National Unity Day: Sardar Vallabhbhai Patel Birthday

31st October

7

International Mother Language Day

21st February

8

National Science Day

28th February

9

International Women's Day

8th March

10

World Environment Day

5th June

11

Hiroshima Day

7th August

12

International Yoga Day

21st June

13

Birth Anniversary of Nobel Laureate Rabindra Nath Tagore: Rabindra Jayanti

9th May (As per Bengali calendar)

14

Birth Anniversary of Swami Vivekananda

12th January

15

National Festival : Dipavali

As per calendar

16

National Festival : Holi

As per calendar

17

Eid

As per calendar

18

Christmas

25th December

Apart from the commemorative days and festivals different events like Smart India Hackathon, ACM-ICPC etc. are hosted by the college every year. International conferences in collaboration with professional bodies are also organised on a regular basis. Different departments organise seminars, conferences and workshops in their domain. The college has an IIC cell that organises different events for the development of the institutional vision and missions.

Participants from all over the country participate in the events. Experts from industry and academia share their valuable knowledge.

Cultural events are also organised to promote Universal Human Values through team work, event organisation and co-curricular and extra-curricular activities. Every year institutional Cultural Fest, Intercollege Cultural Competition (Zonal), Institutional Tech fest is organised. Fests and different cultural events are also organised in departmental levels which promotes leadership quality, Sportsman spirit and managerial behaviour in students.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

### Best Practice

1.

Courses introduced to enhance Employability Skills

Title of the Practice: Beyond curriculum hands-on training programs included for students to enhance the up-skilling and re-skilling of concepts and honing of employability skills.

Objectives of the Practice:

- To train students in emerging topics so that they can excel in their academics and also in the careers of their choice.
- To train for Campus Recruitments

The Context:

Students from vernacular-medium backgrounds need additional training to acquire the skills in corporate etiquette expected by recruiting companies. Most of the students admitted through lateral-entry i.e., with a diploma qualification, need more grooming to perform on-par

with the other students.

It is also necessary to provide requisite training for students to improve their prospects of being recruited in ProductDevelopment and/or Consulting and service-based companies.

The Practice:

The Institution provides well-structured skill-enhancement programs for students of all branches of UG, PG and Diploma beginning from their initial semesters in the First Year itself, which helps them to become more proficient language users.

The details of the training programs are mentioned below:

•English language and communication skills course is part of the curriculum, in the 1st and 2nd Semesters, which help to improve the general communication skills of the students. For lab sessions, a class of 60 students is divided into 2 batches of 30 each and they are provided ear- training in the Phonetics lab, thus enabling them to achieve correct pronunciation and accent neutralization, and to negate any detrimental mother tongue influences.

•In the Language Lab, students actively participate in group discussions, public speaking, debates and presentations, while in the Reading lab students are taught various comprehension and reading strategies to enable them to read different text-types.

In the 3rd and 4th semesters, there is a mandatory course for all Streams in Behavioral and Interpersonal Skills, which gives them exposure to corporate skill-sets and etiquette through intensive case studies.

In addition to the above, there are also:-

Soft Skills and Aptitude Development Programs:

- Students are given group assignments thus encouraging Cooperative learning.
- Furthermore, during the 3rd and the 7th semesters, training is imparted in Soft Skills and Verbal Ability, forming a part of the preparation for placement tests. Modules in Quantitative and Logical Aptitude, Verbal ability and Analytical Reasoning are given, with in-house training in the workshop mode and mock-tests. Students are provided interactive sessions on

speaking, error correction in grammar, cognitive proficiency and business writing skills. This aids in preparing the students for the recruitment process, for entrance exams for higher studies and for other competitive examinations.

- The students are also provided with on-line resources (on-line videos) and on-line tests, regularly, through the ERP system, to prepare them for all the above mentioned exams.

The classes conducted during the 3rd, 4th, 5th and 6th semesters are outsourced to third-party training partners. This is done because the trainers have industry experience and understand the need to bridge the gap between the curricula and the industry requirement and the demands the industry makes on fresh graduates. The students are given inputs based on the requirements of various companies.

The third-party training partners (Myperfectice) also take care of providing on-line resources like on-line practice tests every week, and they also monitor the performance of the students in the online tests. The tests are divided into three different levels: Level I, Level II and Level III. They share the reports of the performance of the students in the on-line tests with the respective departments. Based on the student test performance, the training sessions are customized to cater to the needs of the students and the industry, constantly monitoring their performance and making them adept at these skills. Based on the scores obtained by the students in the level, the students are divided into batches

#### Beyond Curriculum Training (BCT):

Since the last four years, the Institution has also started Beyond Curriculum Training programs (BCT) and embedded it into the curriculum. This is owing to the fact that the model of the recruitment process by various companies has changed. Most of the recruiting companies now expect the students to have basic programming skills irrespective of the branch of engineering they pursue. This is the learning gap that the BCT program hopes to bridge. These BCT programs include: IT-related skills, namely Advanced Programming Skills, Data science and Machine learning. Students of engineering branches other than CSE and IT are offered training in these domains. This is now the common practice of the institute.

The Campus Recruitment Training program is conducted by the Training and Placement Cell for the students during the summer vacation

between the 4th and the 7th semesters. This program includes 100 hours of training in communication and aptitude skills. This is done to reinforce the skills students acquire as part of the training conducted in 3rd, 4th, 5th and 6th semesters.

Besides these skills, the students are also trained in Group Discussions, Resume Preparation and Interview Skills. They are also given company-specific online practice tests in the semester.

Pre, mid and post-assessment tests are administered to the students by M/s. Cocubes and Perfectice Eduventure Private Limited, which provides a proficient on-line assessment tool. M/s. Cocubes and Perfectice Eduventure Private Limited are also hiring agencies. The pre-assessment test helps in identifying the training needs of the students and assists in customizing the training imparted based on their student competencies.

After the pre-assessment test, the student's performance is re-evaluated in the mid-assessment and the training sessions are then oriented to fix the gaps. A post-assessment test helps the students to understand their areas of improvement, if any, so that they can enhance their proficiency levels during the training. The post-test also helps the institution to identify the effectiveness of the training programs and make changes, if needed, accordingly.

Company-specific online practice tests are also provided to the students immediately prior to a particular company's visiting the campus for the recruitment process (Like, TCS, CTS, Byju's) . This helps the students in preparing for their recruitment.

Every year many students across all the branches of U.G./P.G./Diploma secure internships in industries of their respective discipline.

#### Evidence of Success:

With the combined effort and commitment of the institution and students, the institution has achieved very good results during on-campus recruitment processes. This has led to the increase in the quality, as well as, the number of recruitments. Placement Summaries for the last 5 years indicate that the students have been performing consistently well and are recruited by reputed companies and the average pay package has been increasing every year.

2016-2017 - 77.86% students secured jobs with an average pay package of Rs. 2.4 LPA

2017-2018 -79.79% students secured jobs with an average pay package of Rs. 2.4 LPA

2018-2019 - 88.94% students secured jobs with an average pay package of Rs. 3.6 LPA

2019-2020 - 80.75% students secured jobs with an average pay package of Rs. 3.8 LPA

2020-2021 - 83.235% students secured jobs with an average pay package of Rs. 3.9 LPA

A summary of internships for five years given below:

S.No.

Academic Year

Students Opted

internships

1

2016-2017

7

2

2017-2018

8

3

2018-2019

40

4

2019-2020

162

5

2020-2021

122

**Problems Encountered:**

Some of the students, though academically capable, could not afford the cost for the training due to their poor economic background. The college supports these students by extending financial assistance.

**Resources Required:**

- Professional trainers for imparting training.
- Periodic re-training of in-house faculty in "Train the Trainer" programs (British Council & other trainer facilitation programs)
- Resources to conduct training i.e., video lectures on topics in communication and aptitude, online exams for practice purpose, company-specific mock tests, etc. (Online data repository and Question Bank for online tests).
- Books on Aptitude and Soft Skills (some employment-targeted journals and periodicals) and also a Self-Access Video-on Demand Library in the Central Library for students to access employability resources.

2.

**Academic Excellence accomplishment by the Faculty by learning Advanced Level Programmes**

**Title of the Practice:** Encouraging faculty members to enhance their knowledge through life- long learning by up-skilling and re-skilling.

**Objectives of the Practice:**

Facilitate the faculty members to enhance and modernize their domain knowledge.

Students benefit from their teachers who have enhanced their knowledge levels through the additional courses they undertake.

The Context: Improving the quality of the Teaching-Learning Process in the Institution.

The Practice:

Faculty members are encouraged to carry out research work and pursue Ph.D degree in their areas of specialization. Towards this initiative, the faculty members are given paid leave, 1 day/week. Also the work load is taken care of. They are also provided paid leave for course work, their preparation and submission, PhD Viva voce and PhD award. They are provided financial support of up to Rs.1,000/- to present conference papers, Faculty Development Programs (FDPs). Faculty members are also encouraged to gather knowledge on Pedagogy, Outcome-Based Education (OBE), Research Methodologies, and recent developments in the domain specific areas etc. They are also given opportunity to attend Orientation courses, Refresher courses, Workshops, Training Programmes on recent and emerging technologies to update their knowledge and skills.

The Institution enables faculty members even after completion of PhD, to present/publish research papers in national and international conferences and also in journals with high impact factor.

Faculty members are deputed to various programmes conducted by industries so that they can acquire training in latest technologies and impart them to students.

Faculty members are provided with registration fee, Travel Allowance (TA), Daily Allowance (DA) and On-duty/Academic leave for attending all the above programmes.

Faculty members are encouraged to register for on-line courses offered by NPTEL/Coursera and other reputed service providers for strengthening and updating their subject knowledge. They need to complete at least one on-line certification course in each semester. Management has also announced appreciation to faculty members who completed NPTEL course(s) with Elite and Gold certification.

Faculties are always encouraged for the research proposal submission to different Govt funding agencies. There is an internal R & D advisory board to scrutinize the proposal and after several revisions the proposals are being submitted by the faculty members

to the concerned funding agency.

**Evidence of Success:**

32 faculty members of the Institution were awarded their PhD, while in service in last 5 years.

Rest of the faculty members are currently pursuing their Ph.D.

There are 14 recognized research Supervisors in the Institution among the teaching faculty across 6 departments. These Supervisors are guiding 33 research scholars. The research scholars include faculty members of our institution and also members from other institutions.

Faculty members have more than 224 research publications in UGC Approved Journals.

Faculty members also have 328 publications in National and International Conference journals.

Faculty members have obtained certification in courses conducted by Swayam/NPTEL Coursera, Edx, Coursera etc.

In the academic year 2017-2018 faculty members successfully completed 8 NPTEL courses of which faculty members obtained Elite, Gold certification in 6 courses.

In the academic year 2018-2019 faculty members successfully completed 12 NPTEL courses of which faculty members obtained Elite , Gold certification in 9 courses.

In the academic year 2019-2020 faculty members have successfully completed 31 NPTEL courses of which faculty members obtained Elite and Gold certification in 22 courses.

In the academic year 2020-2021 faculty members have successfully completed 49 NPTEL courses of which faculty members obtained Elite , Silver, Gold certification in 41 courses,

The institute received 16 UGC MRP in the year of 2016, 3 UGC MRPs in the year 2017. Sanctioned and received the grant DST-FIST Level 0, AICTE MODROB in 2018. Also received AICTE STTP grant in 2019 and again in 2020. Recommended again AICTE AQIS GOC grant in 2021. Many more are on the queue.

**Problems Encountered:**

1. It is not easy to depute faculty for long-term FDPs, Refresher Courses, Orientation Programmes, etc., during the semesters when academic sessions are in going on.

**Resources Required:**

All faculty members are provided with Computers with internet connectivity.

File Description	Documents
Best practices in the Institutional website	<a href="https://gnit.ac.in/best-practices/">https://gnit.ac.in/best-practices/</a>
Any other relevant information	<a href="https://drive.google.com/drive/folders/1W97nf6FmMK8tbX5RUa-aNx45LLLnp1T7?usp=sharing">https://drive.google.com/drive/folders/1W97nf6FmMK8tbX5RUa-aNx45LLLnp1T7?usp=sharing</a>

**7.3 - Institutional Distinctiveness**

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

**Institutional Distinctiveness (2016-2021)**

The six-fold education of Guru Nanak Institute of Technology is comprising of :

**Accreditation and Recognition**

The institute is accredited by NAAC, UGC, NBA . Further -

1. The Institute got the NIRF ranking between 200 and 250
2. TIMES ranking of 100
3. ARIIA ranking - Performer
4. IIC ranking - 5 star
5. GOLD college rating from QS-ERA

### Teaching-Learning methodology

Institute has identified innovative teaching-learning process through

1. Project-based learning .
2. Industry Adjunct Professors.

Yearly foreign university visits in Bangkok, Russia, etc. for selected students.

1. Industry visits.
2. Industry mentor meet

### Research and Development

The institute completed projects (2016-2021) sanctioned by DST-FIST,UGC,MOFPI.AICTE etc. Till date total 50 patents are published. Journal papers publication in (SCOPUS, WoS, SCI).

### Innovation and Entrepreneurship

The IIC/EDC cell organises different workshop , seminars on innovation and Entrepreneurship development.

### Facilities

Each department has library, design Lab, project lab, smart classroom and computer center, Lybsys software for automated library management and unlimited internet facility. The whole campus is Ragging-free campus. Infosys Campus Connect helps the students in their training and placement.

### Holistic Development

social works and cultural program is another distinctiveness. The institute has it's own humanitarian club PRAGATI founded by our Alumnus.

File Description	Documents
Appropriate link in the institutional website	<a href="https://gnit.ac.in/distinctiveness/">https://gnit.ac.in/distinctiveness/</a>
Any other relevant information	<a href="#">View File</a>

### 7.3.2 - Plan of action for the next academic year

#### 1. FRAMEWORK & BENCH MARKING:

##### RANKING & BENCH MARKINGS:

- Policy for creating and enhancing of infrastructure:

Incorporation of Solar Power Plant, Ganga Action Plan, Rain water Recycling and harvesting etc.

- Gender Policy:

Gender sensitization related subject to be included in revised curriculum

- NAAC rating upgradation.
- NIRF Ranking.
- NBA:

At least 50% of total programmes under the Institution

- QS Ranking

#### 2. RESEARCH AND INNOVATION:

##### Research:

- Inter-disciplinary research.
- IRINS Portal : Inclusion of GNIT in IRINS Portal through Vidwan database

- Text book writing for engineering students by Faculty members.
- Policy to promote research in departments by providing seed funds.
- Collaborative research work with other premiere research Institutes/Universities.
- Enhancing funded research- Industry/Corporate house-sponsored research
- Increase of Seed money for research.
- Enabling project proposal submissions.
- Improving PhD. Enrolment.
- Improving sponsored conferences and seminars.
- Institutional Journal publication
- Research linkages, enhancing MOUs with State & National institutions and industries.
- Publication area expansion (Science & Technology) - Faculty/Students both.

**Innovation:**

- Enhancing innovative research.
- More no.of Patents publication including potential students - At least 15 nos.
- Enhancing Industry Institute interaction.
- Funding for Incubation centres- to be explored.

**Technology support Facilities:**

- Improving research infrastructure.
- Sophisticated instruments procurement through DST first level - 0.

- Cloud & supercomputing facility.
- Renewal of professional society membership.

### 3. FRAMEWORK & BENCH MARKING:

#### Curriculum Development:

- Programme development- facilitating new programmes in the college.
- Twinning programmes (e.g. B.Tech in Electronics and Computer Science).
- Developing a think tank at the institute for idea collection from faculty and HOD.

#### Teaching and Learning:

- Pedagogical improvements.
- Innovative teaching practices- connecting to research.
- Utilization of online resources much more.
- Instilling and nurturing creativity and scientific temper among learners.
- Student-centred /participatory learning activities.
- Blended learning using e- resources.
- Project work and external institutions involvement- student project quality enhancement.

#### Library:

- E SODH SINDHU- process complete, yet to be implemented.
- NDL- process complete, yet to be implemented.
- Special collections- E book collection and repository development.

- National Knowledge Network (NKN, GOI) connectivity -exploration.

#### 4. STUDENT DEVELOPMENT:

##### Student support:

- JIS group scholarship to students for promoting admission.
- Student council revision every year.
- Student counselling & student help desk at institute level.

##### Enhancing Employability:

- Implementing Beyond Curriculum Training (BCT) through Coursera.
- Incubation entrepreneurship development cell formation and room allocation.
- Soft skill as a credit course.
- Financial (minor) support of student research projects.
- Revising institutional mechanism for student placement.
- Group discussion practice through professional agencies.
- Service to students to identify job opportunities - support for UGC-CSIR-NET-, UGC-NET, SLET, ATE, CAT, QRE, TOEFL, GMAT, state/central services, defence, civil services.

##### Student Empowerment:

- Student council activity - student IQAC formation.
- EARN-WHILE-YOU LEARN (EYL) scheme strengthening- M.TECH students scholarship
- Peer assisted learning support scheme.

## 5. GOVERNANCE:

### Planning and Development:

- Gallery for former Chairman of the Trust
- Academic audit of depts. & action thereof.
- Daily activity documentation of departments.
- Alumni association enrichment.
- Dept. autonomy and accountability.
- Inauguration of centre of excellence.
- Starting new centres - institute level for attracting school students.
- Rain water harvesting units.
- Waste water recycling units in institute.
- IQAC newsletters inauguration.

### Governance and Administration:

- Idea boxes to invite ideas from students.
- Inviting suggestions from public, intellectuals.
- Green audit implementation.
- Energy audit implementation.
- ISO implementation.
- Administrative audit.
- PLAG check policy implementation.

### Staff Empowerment:

- Quality circle workshop incorporation twice in a year.
- Stress management training.
- Administrative staff training.
- Growing of leadership at various levels.
- Gender sensitization programmes.

NAAC