YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	Narula Institute of Technology
• Name of the Head of the institution	Prof.(Dr.) ?Maitreyi Ray Kanjilal?
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	033-25637777
• Alternate phone No.	033-25638888
• Mobile No. (Principal)	9433035580
• Registered e-mail ID (Principal)	principal_nit@jisgroup.org
• Address	81, Nilgunj Road, Agarpara Kolkata -700 109, West Bengal, India
• City/Town	Kolkata
• State/UT	West Bengal
• Pin Code	700109
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	29/07/2015
• Type of Institution	Co-education
• Location	Urban

• Financial Status	**Self-financing**
• Name of the IQAC Co-ordinator/Director	**Dr. Surajit Bari**
• Phone No.	**033-25637777**
• Mobile No:	**9432128450**
• IQAC e-mail ID	**iqac_nit@jisgroup.org**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.nit.ac.in/pdf/AQAR2019-2020.pdf
4.Was the Academic Calendar prepared for that year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/Academic_Calendar_2020-21.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B**	**2.43**	**2014**	**10/12/2014**	**31/12/2020**
Cycle 2	**A**	**3.22**	**2022**	**08/03/2022**	**07/03/2027**

6.Date of Establishment of IQAC	**03/01/2012**

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.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Electronics and Communication Engineering Department	Extension of NBA Accreditation for the Programme B-Tech in ECE	NBA, India	10/09/2020	NA
Electrical Engineering department	Extension of NBA Accreditation for the Programme B-Tech in EE	NBA, India	10/09/2020	NA
Civil Engineering Department	Extension of NBA Accreditation for the Programme B-Tech in CE	NBA, India	10/09/2020	NA
Information Technology Department	Extension of NBA Accreditation for for the Programme BT-ech in IT	NBA, India	10/09/2020	NA
Prof.(Dr.) Bidyut Kumar Mediya	STTP under AQIS	AICTE	10/08/2020	Rs. 357667
Dr. Biswajit Halder	MODROB	AICTE	20/07/2020	Rs. 361569
Dr. Anilesh Dey	MODROB	AICTE	20/07/2020	Rs.566275

8.Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI

[View File](#)

9.No. of IQAC meetings held during the year	4	
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	Yes	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Did IQAC receive funding from any funding agency to support its activities during the year?	No	
• If yes, mention the amount		

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

Development and up gradation of video lecture of all courses

IQAC assisted in the preparation and submission of PG SAR to NBA for the programme M. Tech – CSE, ECE, Structural Engineering (CE), Power System (EE)

Preparation and submission of IIQA for the NAAC accreditaion in cycle -2

Preparation of SSR or the NAAC accreditation in cycle -2

IQAC has made a significant contribution to the revision and implementation of Curriculum - Curriculum Revision 2021 (R21)

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
Preparation of e-Resourses	(a)Development and up gradation of video lecture of all courses(b) Continuation of FTP server for the remote access of e- book and e-journals (c) Procurement of J Gate database for the benefit of students and faculty
NBA Accreditation of PG	Preparation and submission of PG

Programme	SAR to NBA for the programme M. Tech – CSE, ECE, Structural Engineering (CE), Power System (EE)
NBA Accreditation of UG Programme	Based on the compliance submission, the accreditation of 4 UG Programme - B-tech in ECE, EE, CE and IT has been extended upto 30th June, 2022
NAAC accreditation for Cycle-2	IIQA has been submitted and approved by the NAAC. Data and Documrnts for SSR have been uploaded.
Autonomy renewal	Application for the renewal of autonomous status has been submitted
Revision of Autonomy Curriculum	Revised autonomy curriculum under regulation 2020 (R21) has been published for the implementation from the academic session 2021-22
Online end semester examination due to pandemic situation	Online end semester exmination conducted successfully
Code of conduct to attend college during pandemic situation	Implementation of rules and code of conduct for employees during attending college regarding the pandemic situation
Awareness programme to protect COVID-19	Awareness programmes to protect COVID19 pandemic are conducted for student, staff,faculty and local society

13.Was the AQAR placed before the statutory body?	Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Board of Governor (BOG)	23/12/2021

14.Was the institutional data submitted to AISHE ?	Yes

- Year

Year	Date of Submission
2020-21	31/03/2022

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	12

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.Student

2.1 Total number of students during the year:	2994

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2 Number of outgoing / final year students during the year:	814

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3 Number of students who appeared for the examinations conducted by the institution during the year:	2983

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.Academic	
3.1 Number of courses in all programmes during the year:	**828**

File Description	Documents
Institutional Data in Prescribed Format	<u>View File</u>

3.2 Number of full-time teachers during the year:	**232**

File Description	Documents
Institutional Data in Prescribed Format	<u>View File</u>

3.3 Number of sanctioned posts for the year:	**232**
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**209**
4.2 Total number of Classrooms and Seminar halls	**60**
4.3 Total number of computers on campus for academic purposes	**896**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**1231.47**

Part 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.

Narula Institute of Technology strives to address the local, regional, national and global developmental needs since it becomes autonomous. While developing the curriculum, sufficient emphasis is given to accommodate adequate domain knowledge along with substantive skill and aptitude of the students.

Following major factors have been considered for designing the curriculum:

- Guidelines of the regulatory bodies
- Program-specific requirement of Industry and R&D sectors
- Benchmarking of the curriculum from pioneer Universities and Institutes in India and abroad
- Feedback of all major stakeholders
- Current emerging areas of technological advancement
- Societal demands

The process of designing and revising the curricula is undertaken through a very transparent processinvolving faculty members at various stages like the Departmental Academic Committee (DAC), Board of Studies (BOS), Academic Council (AC) and Board of Governors (BOG). DAC initially prepares the draft curriculum considering all the factors as depicted along with Program Outcomes (POs) prescribed by the regulatory body. Then, the draft curriculum is placed before the Board of Studies (BOS) for exhaustive analysis and subsequent approval. Then, the curriculum is placed before the AC of the institute for further approval. After that, it is placed at the BOG for necessary permission to submit to the affiliating University.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	Nil

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

1

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

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

527

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	**No File Uploaded**
Any additional information	View File

1.2 - Academic Flexibility

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

228

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

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

12

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

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

Courses those address the Gender The outcome attempts to acknowledge that we would like to know our psychological, social, economic, and political roles. Knowledge and understanding of the differences in roles and relations between women and men, especially within the workplace: it is important to continuously raise gender awareness and understanding among officialdom and therefore the public generally.

Courses based on Environment and Sustainability Studying Environmental Science is very important as it is related to where we live and where we are sharing the resources with all the other species on the Earth. The study of the courses enlightens with the knowledge how to conserve the natural resources and how to stop the degradation of the resources by taking the safety measures and awareness among humans. Environmental studies will assist an engineer in finding solutions to environmental issues in an environmentally responsible manner.

Courses based on Human Values and Professional Ethics Human Values and Professional-Ethics aims to educate students about its importance along with the various theories of self development, so as to mould them into efficient, humane professionals. In addition to conveying knowledge about human values and professional ethics that should shape the conduct of the engineering profession.

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	View File
Any additional information	View File

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

23

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

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

2873

File Description	Documents
List of students enrolled	View File
Any additional information	View File

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

996

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained   **A. All 4 of the above**

**from 1) Students 2) Teachers 3) Employers
and 4) Alumni**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.nit.ac.in/pdf/feed-2020-21.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

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	https://www.nit.ac.in/pdf/feed-2020-21.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

805

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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)

135

File Description	Documents
Any additional information	[View File]()
Number of seats filled against seats reserved (Data Template)	[View File]()

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

·The institution organizes a common diagnostic test for freshers across the departments. Based on the result of diagnostic test and +12 results, the slow learners and advanced learners are identified.

·The learning level are identified by the concerned faculty based on their slot test marks, class assignments.

Strategies for slow learners

- For the 1styear students, they are provided the special training on the subjects like physics, mathematics and English for brush up the concepts.

- Remedial classes are conducted to solve the Question papers.
- Doubt clearing classes are conducted to clear doubts.
- Through mentor-mentee scheme the mentor can give one-to-one academic and personal counseling.
- Bilingual explanation is imparted after the class hours for their better understanding of the concepts.

Strategies for advanced learners

- For the 1styear students, they are encouraged on project-based learning on the subjects like physics and chemistry.

- Encouraged to participate in different competitions like paper presentation in various Seminars/ Conferences/ Workshops, co-curricular activities.
- During semester break, two-week long special training sessions held on advance technologies.
- Encouraged to enroll in MOOC Courses for advanced subjects.
- The academic achievements are extremely encouraged and highly

praised through award ceremonies.

- **Department provides special classes for the preparation of GATE exam.**

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2021	**2994**	**232**

File Description	Documents
Upload any additional information	[View File](#)

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:

Faculty strives to implement best possible way to engage students in teaching so that teaching actually happens some of the ways are Experiential learning methods, participative learning and problem solving methodologies.

Experiential learning methods:Practical approach with theoretical knowledge is the necessity to quality learns of every field. Experimental learning focuses on workshop, laboratories, Project as well as virtual laboratories ofknowledge and skills to real-world experiences to further increase learner'sknowledgeand develop competence in skills and behaviors.

Participative learning methods:Apart from traditional chalk and talk, the power point presentations are used through ICT tool like; projector, smart board etc. in the classrooms. Pedagogical Techniques like; Think-Pair-Share, Peer Learning, Predict-Observe-Explain, Gaming methods and model presentation etc. are implemented in the class rooms.

Problem solving methods:Students enrich the problem solving ability

through tutorial classes, software base laboratories courses and readiness of competitive examination through the practice of MCQ etc. The students are also trained the technical paper writing to inclined interested student towards research. Collaborative efforts with the industry personnel for enhancing the learning levels of the graduates like; project work. Different modern tool, like MOOCs, Moodle are used for enhancing the learnability of students.

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/2.3.2%20List%20of%20ICT%20enabled%20tools.pdf

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

The faculty of Institute use all the ICT enabled tools completely including online resources for effective teaching and learning process. General ICT Tools are Used by faculty are: Desktop and laptops, Projector, Smart board, tablets, Scanners, Microphones, interactive white board and CDs, Flash discs etc.

The faculty at NIT use various ICT enabled tools to enhance the quality of teaching-learning like LMS, Virtual labs.

To teachmathematicalsubjectsinonlinemode, facultyhaveusedvariousonlinetools like-whiteboard in Microsoft teams, Jamboard in Google meet, Graphic tablet etc.

The faculty conducts classes throughSmart Interactive Flat Panel, which is aMulti Touch Devicewith 4K Resolution, Inbuilt Speakers, Gesture Annotation.Faculty regularly conducts online tests through MyPerfectice platform-It is an online learning platform and it allow the students to take test anytime-anywhere.

E Content

The faculty uses NPTEL, Coursera and different Swayam Courses in their presentations as references.

The faculty uses and also refers to the e content at the Librarywhich hasIEEE ASSP(e-journal), access toNational Digital Library of India andBritish Council Library, a collection of more

than 2000+ E-books from renowned publishers, which are accessible through FTP server with remote access facility.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/2.3.2%20List%20of%20ICT%20enabled%20tools.pdf
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

156

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

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

Academic Calendar:

The institute prepares its Academic Calendar in adherence to the guidelines of the Regulatory bodies incorporating curricular activities, additional courses, events and co-curricular activities for the UG and PG programs. Each academic year is divided into two semesters. Academic calendar covers all important dates for students and faculty such as start and end day of a semester, slot for Beyond Curriculum Training, mid term examinations, exam form filling, final examinations, holidays, industrial training/internship during Semester breaks, vacation period, foundation day of the institute, date of Degree Award Ceremony, sports, cultural activity etc.This enables the students and faculty to be well prepared, minimize their chances of academic loss and take full advantage of the flexibility provided by the credit system.

The academic calendar is displayed on institute website (https://nit.ac.in/academic-calendar.php) and all the department notice boards.

Teaching Plans:Department Academic Committee meeting is conducted by the Heads of the departments with their respective faculty well in-advance of commencement of the semester for allocation of subjects.Every faculty prepares the academic teaching planof the course content, spread over the allotted lecture hours, to ensure a uniform pace of teaching,which is approved by HOD.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

232

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

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

61

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	**No File Uploaded**
Any additional information	View File

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

1492

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
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

14

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

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

7

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

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

IT Integration:

The entire evaluation process has been done through online examination management system.

Since 2020-21, in even semester the semester examination started to conduct through drive link. Question paper download links were available on the examination day and master sheet put up on the NIT

website one day before the examination. Students could download the specific subject question paper which is password protected. Passwords were given to the students 10 minutes before the examination.

Students make a single PDF file and upload to a drive link in the central server.

CIA:

Class Test and Slot Test: 15 marks

Assignment & Quiz: 10 marks

Attendance: 5 marks

In 2021 two slot tests were conducted in LMS within a stipulated period notified by COE. The question papers had to send by mail to controller and assistant controller before examination started.

Central Assessment

- Assessment of answer scripts of semester examination are done in a central system by internal and external examiners.
- Answer key is prepared by paper setters / head examiners for all subjects and uploaded in the online system.
- Examiner is putting the marks for answers in specified spaces provided in evaluation system.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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 ensures appropriate determination and dissemination of Programme Outcomes (POs) and Course Outcomes (COs) to fulfil the objectives of OBE.

POs highlight the expected professional accomplishments at a broader

level upon completion of a programme. The POs as defined by the NBA for engineering graduates are followed in entirety for all the engineering programmes. The COs of a course indicate the expected scope of various competencies upon completion of the course. The COs are generally formulated using action verbs from Bloom's Taxonomy-based learning levels.

The soft copy of each active programme's syllabus, which includes POs and course-specific COs as well as other curricular details, is uploaded to the institution's website for easy and authentic reference. Every department maintains a course file for each active curricular course, detailing course outcomes and their correlation with POs. At the beginning of a semester, each course file is reviewed to confirm standard specifications of COs before apprising them to the students during initial lectures. Additionally, the POs of a programme are kept at prominent locations in the respective department, viz. classrooms, department-corridors, faculty rooms, and laboratories, for extending the scope of public view.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

The attainment of a program outcome (PO) is evaluated analysing the attainment levels of course outcomes (COs) having correlation with the PO and conducting surveys on POs.

Direct Assessment Strategies:

An attainment level (on scale 3) for a particular CO is determined by the percentages of students who earned more than a specified percentage of the total points allotted for the CO-specific questions across all tests.

Direct CO-Attainment Level = Attainment Level in End-Semester Examination (70% weightage) + Attainment Level in Intermediate Assessment (15% weightage) + Assignment (10% weightage) + Attainment Level in Attendance (5% weightage)

Direct PO Attainment Level of a course = Normalized AVG(CO-POCorrelation Level x Direct CO-Attainment Level) on scale 3.

The overall attainment of a PO is computed by taking an average across all the courses.

Indirect Assessment Strategies:

These are implemented by conducting Student Exit Survey, Employer Survey and Alumni Survey. Each survey form collects opinion rating for each PO in terms of the perceived attainment level achievable through the curricular and beyond curricular activities.

FinalPOAttainment Score (%) = (80% weightage) x (Direct PO Attainment Level) + (20% weightage) x (Indirect POAttainment Level)

Sample of CO-PO Attainment

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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

814

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/2.6.3_Outgoing%20Students.pdf

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://www.nit.ac.in/pdf/nit-naac/aqar_2021/SSS_2020_21.pdf

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

Research being Institution's major thrust area, has been emphasized since 2012 by creating the Research & Development (R&D) cell which was further strengthened by creating research policy in 2015 and approved by Board of Governors under agenda no 8 dated 27.08.2015, followed by subsequent amendments in the year 2016, 2017,2018 and 2019. The R&D policy is focused to promote research, funding and systematic monitoring of research works. The Research Policy was laid down bearing in mind the necessity of promoting the research environment and culture amidst the faculty members which is available in the website www.nit.ac.in and copies in central library and departmental library for easy access to faculties. All faculty members follow the R&D policy to establish a research environment in the institute. The Research & Development initiatives aim to build research attitude for faculty. The progress of faculty members doing Ph.D. and ongoing funded projects are discussed. Research and innovation are promoted among students by revising the undergraduate course curriculum in the year 2018 where a mini-project has been introduced from the very first year. The institute emphasises to promote collaborative research work and multidisciplinary research work has been one of the major thrust areas of these committee.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.nit.ac.in/pdf/R&D%20Policy%20NiT.pdf
Any additional information	View File

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)

6.96

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

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

2

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
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)

157.2

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

3.2.2 - Number of teachers having research projects during the year

42

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	**Nil**
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

3

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

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

7

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	**Nil**
Any additional information	View File

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.

Response:

The Institute strives to promote innovation, entrepreneurship skills among the students and faculty to extend knowledge and transfer

technology.

Some Initiatives:

- 2016: MoU between CII and Institute done to provide consultancy and technology sharing.
- 2018:Institute recognized as Host Institute for implementation of the scheme "Support for Entrepreneurial and Managerial Development of MSME's through incubator" .
- 2018-19: Institute established Institute Innovation Council (IIC) as per norms of Innovation Cell, Ministry of HRD, GoI during IIC-Calendar year 2018-19.
- 2018-19: Institute undertook various activities prescribed by the Innovation cell, Ministry of HRD, GoI and scored 2 stars.
- 2019-20: Institute undertook various activities prescribed by the Innovation cell, Ministry of HRD GoI to promote innovation and start up in campus and scored 5 stars and listed in the top 5 institutes in the Eastern region.
- 2020:Institute re-registered as Host Institute for implementation of the scheme "Support for Entrepreneurial and Managerial Development of MSMEs through incubator"
- 2020: Faculty members undergone Innovation Ambassador Training in March 2020. Faculty member nominated for the NISP training and implementation in the Institute.
- 2020-2021: Events like hackathon, Idea Competitions, Project exhibition were organized forstudents to exhibit their innovative ideas.
- 2020-2021: Scored 4 star ranking by MIC, MHRD, GoI

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.nit.ac.in/pdf/nit-naac/3.3.1_Additional%20Documents.pdf

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

61

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation 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

A. All of the above

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	View File
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

4

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

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

65

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

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

172

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/3.4.4_FINAL.pdf

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

163

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

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

12

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

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

50.2

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

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

5.27

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

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

Response:

The mindset to work for the betterment of the neighbourhood and society is being nurtured through the mandatory noncredit course of NSS and extended activities for Mandatory Additional requirements

(MAR). To instill the socialistic approach among the first-year students, the National Service Scheme (NSS), an initiative by the Ministry of Youth Affairs and Sports, Central Government of India, is considered mandatory. Due to the presence of this opportunity, the students volunteer to aid the society by several social works like tree plantation, NGO visits, distribution of handmade paper bags as an alternative to plastic bags to the commoners, mass distribution of masks and sanitizers in the dark hours of the pandemic are some of the major steps taken to aid society under the scheme of NSS.

Some endeavours:

1.Swachh Bharat Abhiyan

2.Blood Donation Camps

3.Plantation Programmes

4.AIDS Awareness Programmes

5.World Water Conservation Day

6.World Tobacco Prohibition Day

7.Special Programmes Related to Health and Hygiene among students in surrounding community people.

8.Women Empowerment Programmes etc.

Under the initiative of Unnat Bharat Abhiyan, by the Ministry of Education, institute has extended its activities to five different villages in an attempt to bring about the light of socio-economic upliftment of the families.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

18

File Description	Documents
Number of awards for extension activities in during the year	[View File](#)
e-copy of the award letters	[View File](#)
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)

26

File Description	Documents
Reports of the events organized	[View File](#)
Any additional information	[View File](#)

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

2560

File Description	Documents
Reports of the events	[View File](#)
Any additional information	[View File](#)

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

40

File Description	Documents
Copies of documents highlighting collaboration	[View File](#)
Any additional information	[View File](#)

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)

1

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
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.

Response:

The institute has been making an untiring endeavour for ensuring adequate availability and optimal utilization of physical infrastructure for smooth conduction of teaching learning activities within a well maintained lush green campus. It has adequate infrastructure in alignment with the regulatory norms as listed below.

- **The institute has 52 ICT-enabled ergonomically designed classrooms**
- **The institute has 8 seminar halls and one conference room with adequate seating accommodations.**
- **Adhering to the specifications as laid down by the regulatory body, the institute always makes sincere endeavours to ensure quality of all of its UG and PG laboratories.**
- **The entire campus has 980 active PCs with the latest i7/i5/i3/Core2Duo, 16GB/8GB/4GB/2GB DDR4 RAM hardware features.**
- **Institute provides uninterrupted access to network services with 200 Mbps internet bandwidth. The campus is Wi-fi enabled with 24/7 internet connection facilities having adequate band-width for conducting live sessions.**
- **The institute has five digital studios which have the facility for recording and projection with audio visual system. The institute also has a dedicated language lab equipped with the most advanced AV System and ISIL software.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

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

Response:

Participating in extracurricular activities make the students do well in their academics, since they learn discipline, time management, scheduling which leads to a better learning process. The institute tries to provide the best of facilities for these. Some of them are as follows:

- **The institute has 2 multipurpose rooms each of 278 sq. m area with 400 seating capacity for cultural activities Institute proclaims to have 2 common rooms with capacity of 60 each and open space with a capacity of 100 for cultural activities.**
- **A specific Yoga room of 278 sq. m area with 40 accommodating capacity is available.**
- **At the outset, the institute is having sufficient, adequate and varied facilities available to sustain the diverse indoor and outdoor activities. The institute has multipurpose ground having area of over 3685 Sq. m.**
- **There are one modern Gymnasium with the latest equipment to maintain body fitness for the use of students and teachers. The area of the gymnasium is 69 sq. m.**
- **Institution also has a dedicated sound proof auditorium of 278 sq. m with 400 seating capacity.**

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional information	Nil

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

60

File Description	Documents
Upload any additional information	[View File](#)
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

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

100.66

File Description	Documents
Upload audited utilization statements	[View File](#)
Details of Expenditure, excluding salary, during the years	[View File](#)
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)

Response:

Yes, Libraryis automated using the IntegratedLibrary Management System.

- **Name of the ILMS software: # LIBMAN**
- **Nature of automation (fully or partially): Partial Automated**
- **Version: 5.3**
- **Year of automation: 2017**

 # LIBMAN Software is supporting the workflow of the Automated Library by comprising of seven modules. These are as follows-

1. Master

2. Cataloguing

3. Circulation

4. Serial Control

5. Utility

6. Query

7. Reports

Web OPAC

Institutional OPAC may be searched to check accessible status of books through the URL http://122.252.249.26:92/forms/frmdashboard.aspx# .

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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	View File
Upload any additional information	View File

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

25.22

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

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

205

File Description	Documents
Upload details of library usage by teachers and students	[View File](#)
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

Initiatives implemented for upgrading IT facilities:

- **A constant bandwidth of 200 Mbps is being provided by the institute during 2020-2021 academic year.**
- **The institute has effectively and periodically marched on from a handful of Wi-Fi hotspots to a robust and seamless Wi-Fi campus with 25 number of access points.**
- **The Institute has 980 numbers of working computers**
- **List of PCs purchased and the allocated budget for upgrading the IT facilities for 2020-21 are as follows:**

Year

No. of PCs Purchased

Computer Specifications

Budget Allocation (INR in Lakhs)

Budget Utilization (INR in Lakhs)

2020-2021

55

Intel Core i7, 16 GB DDR4 RAM, 1 TB HDDs, TFT monitor

50.88

48.17

- **NIT is secured by a formidable 300E Fortigate UTM**
- **The entire campus is covered by over 305 numbers of CCTV cameras which provide 24x7 surveillance with 15 days backup facility.**
- **The institute has handsome number of ICT enabled classrooms with overhead projectors with another 8 projectors being added in the last financial year.**
- **Institute currently has 3 biometric sensor machines for its finger-print attendance.**
- **It is equipped with a dedicated Server Room with 7 high-end Servers. The whole IT infrastructure is being maintained through this Server Room.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2994	**896**

File Description	Documents
Upload any additional information	[View File](#)

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	[View File](#)
Upload any additional information	**No File Uploaded**

4.3.4 - Institution has facilities for e-content development: Facilities available

A. All four of the above

**for e-content development Media Centre
Audio-Visual Centre Lecture Capturing
System (LCS) Mixing equipments and
software for editing**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

115.47

File Description	Documents
Audited statements of accounts	View File
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.

Response:

The Institute has established system & procedures for maintaining and utilizing physical, academic, and support facilities as follows:

1. The institute has Standard Operating Procedures (SOP) for maintaining and utilizing physical, academic, and support facilities.

2. The institute deputes a civil supervisor and admin executive for the inspection of the Institute building.

3. Regular peer vigilance is being conducted through physical and digital modes.

4. Annual Maintenance Contracts are followed by the institute.

5. Repairs of the various items are done by trained personnel.

6. Recurring training is being provided to faculty and staff members for performing high-end equipment.

7. The institute conducts preventive maintenance to reduce breakdown.

8. Calibration of the laboratory equipment is done regularly.

9. The institute maintains its cleanliness and hygienic gradation by sufficient housekeeping staff.

Utilization

- Classroom allotments are done by the timetable committee.
- Laboratories allotments are done by the respective HOD.
- Seminar halls booking is made by HOD.
- The auditorium booking is made through the "Registrar section".
- Students can avail of the college bus facilities through enlisting their names to admin executive as per the availability.
- The sports materials and ground allotments are done by the sports-in-charge as per the availability.

File Description	Documents
Upload any additional information	[View File](View_File)
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

255

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

414

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

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	https://www.nit.ac.in/student-centric-programs.php
Details of capability development and schemes	View File
Any additional information	View File

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

2634

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

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

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

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

721

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

39

File Description	Documents
Upload supporting data for students/alumni	**No File Uploaded**
Details of students who went for higher education	View File
Any additional information	View File

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

10

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

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

2

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

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

Student Council:

Formation of the Student Council:

The Student Council is formed in the month of July. The students are

invited to join the clubs of their own choice. The registration to the clubs is done online and the portfolios are nominated by the college authority.

Vision: to develop leadership qualities and make the students socially responsible.

Mission:Assisting the students' innovativeness & activities related to various technological and non-technological oriented projects to enhance their hidden talent and creativity.

Student Council & representation of students on academic & administrative bodies/committees

The student representatives are there in the Anti-Ragging committee, Literary committee, cultural committee, sports committee, and Hostel -Canteen committee.

Apart from this, our college aims at the all-around development of students by organizing several extracurricular activities throughout the year.

Various activities are initiated by the above-mentioned clubs. Some of the activities that are initiated are mentioned below:

1. Workshops & Seminars

2. Annual Sports

3. Publication of the magazine

4. Intra and Inter-college academic competitions

5. Debates & Quizzes

6. Exhibitions

7. Industry Visits

8. Campus Beautification Program

9. Social Service

10. Intra and Inter-college non-academic competitions

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

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

15

File Description	Documents
Report of the event	[View File](#)
List of sports and cultural events / competitions organised per year	[View File](#)
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

The NiT Alumni Association was established and registered under the Societies Registration Act 21 of 1860, formed to build an actively engaged alumni network during the year 2006-2007 with a Registration No S/1L/41814.

The institute has a working website (https://www.nit.ac.in/alumni/), a Facebook page (https://www.facebook.com/NITAlumni), and an official Whatsapp group for the alumni interaction.

The alumni member contributes significantly to the development of the institution in following ways:-

Academic contribution:

NiT Alumni Association organizes special training programs like Training program on Basic Electronics, Embedded systems, PLC, SCADA & PCB Design. In addition to this, the association also provides feedback from the industry at various platforms, like international conferences, seminars, industry conclaves, industry visits, etc. The Alumni contribute to the curriculum modernization and design process. The BOS includes alumni representatives from industry, and

academia as departmental alumni nominees.

Placement contribution:

Besides this, NiT is also linked with their Alumni through the official Whatsapp group and social media to extract the linkage of industries and reputed universities for higher education. Alumni have a separate portal on the Institution's website asalumni.nit.ac.in.

Extra-curricular activities:

Every year Alumni members actively participate in extracurricular activities like blood donation camps, cricket, football match, and cultural programs.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021 /5.4.1_Alumni%20event%20report.pdf

5.4.2 - Alumni's financial contribution during the year   C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The institute aims at delivering Engineering education through an effective teaching learning process to compete with global standards.The process gets more efficacious after getting its 'Autonomy' status in the year 2015.The institute's core tenets are evident in the Vision and Mission which was revised in 2018.

The Institution also excels in academics for over two decades due to

the continuous review and improvement of quality policies under the effective leadership bodies of BOG, Academic Council, BOS, IQAC along with Principal, Registrar, HODs, faculty etc. The efficient leadership of the Management helps to achieve the Vision, Mission and Quality Policy of the institute reflected through a host of innovative activities like teaching-learning, creation of state of art infrastructure, placement drive and in organizing several other activities.

The BOG comprises of a team of academicians, professionals and philanthropists whose sole motto is to serve the society, motivate and encourage the budding students to build entrepreneurship qualities.

Therefore, through effective leadership the governance of the institute targets toward the attainment of the Vision, Mission and Quality Policy stated above.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	Nil

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

The effective leadership is reflected in various institutional practices such as decentralization and participative management

The Institution has a practice of participative management. It provides an opportunity to all the employees and stakeholders to participate in the decision making process. The decentralized governance model is evident in every sphere- academic, financial as well as administrative.All matters are discussed and decisions are made through recommendations of various Statutory and Non-Statutory committees represented both by teaching and non teaching staff, students, parents, alumni, employer, etc.

Practice of Decentralization and Participative Management:

The top management has decentralized its financial, administrative and academic powers to the Principal, Faculty members and administrative staff from time to time. Decentralization & delegation of powers come effectively by the aid and assistance of

BOG by constituting statutory and non-statutory committees like Academic Council, IQAC, NSS, Anti Ragging etc. Some of the decentralization examples are discussed below:

Academic Decentralization

Administrative Decentralization

Financial Decentralization

A case study showing degree and extent of powers in financial decentralization is also provided in additional document.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	View File
Paste link for additional Information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/Committee%20list.NAAC.pdf

6.2 - Strategy Development and Deployment

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

The Institute way back in the year 2020 vide BOG agenda no.10 dated 23th August 2020conceptualized the following Strategic/Perspective plan for quality enhancement:

i) Target in Ranking andaccreditation:

NAAC A+ grade by 2021QS Rating-5 STAR for the institute by 2022

and 5 STAR for any department by 2023

NBA-accreditation of all UG and PG programs by 2022

NIRF ranking: Top 150 institute by 2021and within Top 100 institute by 2023.

ii) Encouragement in Research culture in faculty and students

iii) Empowering Human Resource Management

iv) Strengthening collaboration with Industry

v) Enhancing Outcome of Students

vi) Restructuring and upgrading need-based Curriculum.

Above initiatives were launched on war-footing in subsequent years with an eye on year-marked milestones. However, due to several impediments the expectation was achieved shortly.

The activity successfully implemented based on the strategic plan:

During pandemic, we have adopted an online mode of education. Hence it becomes tremendously necessary to create a digitized platform of study material which could be available to the student from their remote area. Starting 2020 our combined effort was to evolve a digitized platform and implement the system through FTP server where a large number of study materials can be accessed through individual user id by all faculties and students in various forms like Books, Journals, Laboratory experimental demonstration video, and Training Materials.

File Description	Documents
Strategic Plan and deployment documents on the website	**No File Uploaded**
Paste link for additional information	https://www.nit.ac.in/pdf/strategic-plan.pdf
Upload any additional information	**No File Uploaded**

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.

Way ofthe Institute's functioning follows the concept of Decentralization. The delegation of power and authority herein proved to be a very successful and effective administrative system.

The ORGANOGRAM has been revised in 2021 to incorporate further distribution of responsibility heads on a much rational manner.

STATUTORY COMMITTEE MEETING FREQUENCIES:

Statutory committee

Responsibility

Frequency of the meeting/year

BOG

Define the role and mission and set the strategic directions for the Institute

Four

ACADEMIC COUNCIL

Maintain of standards of education, teaching and training, interdepartmental coordination, research, examinations etc.

Twice

BOS

To frame the content of various courses, reviewing and updating, introducing new courses, mapping CO, PO, Review attainment level etc.

Twice

FINANCE

Monitor Institute's Finance and Budget

Twice

IQAC

To develop a quality system for consistent and catalytic programmed action to improve the academic and administrative performance of the Institute

Four

The institute had received its service rule in the year 2018. Recruitments are made following the eligibility criteria prescribed by the statutory bodies.

Annual increment is given to staff members on the basis of performance appraisal through analysis of self-appraisal form and feedback from various stakeholders. Awards and recognition are given

to the faculty for contribution in R&D activity.

The faculty and staff submit their application for consideration under Career Advancement Scheme of the Institute and the same is processed as per the Promotional Policy of the Institute.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.nit.ac.in/organogram.php
Upload any additional information	**No File Uploaded**
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) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

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

Leave Rules: (For all employees except categorically mentioned)

A. CL:12 days annually

B.EL:i.30 days annually for vacational employees,

ii.20 days for non-vacationalemployees.

C.Sick Leave: 10 days/ year

D. Maternity Leave for female employees:90 days

E.Study Leave: Facultymemberswith at least 3 years of service for higher qualifications like Ph.D, Post Doc not more than two years with one year an extension.

F.Study Leave under QIP: Leave up to three years granted for Ph.D program.

Other benefits for Teaching and Non-Teaching Staff

a. CPF, Gratuity provided

b. DA, HRA and Medical allowance

c. Group Medical Insurance

d. Financial assistance to attend conferences, workshops, FDP, seminars and for filing patents

e. Free of charge transport facilities at selected locations provided

f. Interest Free loan

g. Annual Appraisal

h. CAS

i. Awards & Recognition for research

j. Scholarship policy for Employee's children to study in NIT

k. Grant of Seed Money

l. Ph.D Increment

m. Gym, Medical center

n. ATM facility at campus

o. ESI for all eligible employees

p. Festive bonus for Non-Teaching Staff

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/6.3.1_Service%20Rule%20Final%20scan.pdf

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

232

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)	View File

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

48

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

193

File Description	Documents
Summary of the IQAC report	**No File Uploaded**
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	[View File](#)
Upload any additional information	[View File](#)

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The internal audit and statutory audit by professional chartered firms is conducted in the Institute. Over the years it is being carried out regularly and no serious financial irregularity has ever been reported.

Internal audit checks all transactions and the compliance level across the hierarchy and accuracy and authentication. Regulatory compliances along with monitoring of tax liabilities was conducted by M/SSubhendu Dutta & Co, Cost Accountant,FRN No. 100863, 66 Malanga Lane, Kolkata 700012 for the year 2015-16, 2016-17 and 2017-18 .DPC & Associates, Cost Accountants,FRN No. 001147, 3 Kapalitala Lane, Kolkata 700012.

M/s. Bandyopadhyay Associates, Chartered Accountants of 350(370/06) Pearpore Road, P.O- Sheoraphuli, Dist- Hooghly, Pin- 712223 West Bengal are the statutory auditor of this institute. They conduct the audit to give a fair view of the state of affairs and whether the financial statements are free from material misstatement at the year end.

The external auditors also review the status of procedural and transactional compliance in all financial transactions of the Institute mainly conducted through ERP

In the history of the Institute there has not been a single occasion when the statutory auditors pointed out qualifications and other irregularities in the Balance Sheet.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**

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)

7.07

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

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

Resource mobilization policy and procedure:

The Institute generates its fund from student & hostel fees, Project Fund and contribution from Trust.

Student fees constitute the bulk share but the total funds generated always remain in short supply to meet emerging demand. Efforts in recent past have been made for additional resources through sponsored research funds and entrepreneurship development programmes.

The institute utilises its funds on the basis of systematic budgetary control. It utilises its funds for investment towards cost of Infrastructure development and augmentation, new laboratory setup, procurement of new laboratory equipments, value addition to its old equipments, to meet the staff cost ,expenditure towards library books, journals and subscriptions, to purchase the consumables for laboratory use, maintenance for academic and physical support facility, holding seminars and workshops for faculties and students. Fund utilised for maintenance for hostel facility, financial assistance to Faculty and Staff members to attend seminar, conference and workshop.

Funds are utilised as per the budget sanctioned for a particular year. All out efforts are made that there is no excessive expenditure; money is spend as per administrative sanctions; chances for frauds and embezzlements are minimised; and purchases are made as per standard procedure.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	**Nil**

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)

Response:

Internal Quality Assurance Cell (IQAC) conducts activities to ensure the qualitative outcomes of various units by formulating quality strategies since the inception on 3rd January 2012.

Following two practices are provided which are exercised meticulously as a result of institutionalizing the quality assurance initiatives by IQAC.

Practice 1: Facilitating Digitization of Teaching-Learning Process:

- **Ensuring Quality and Utilization of LMS content: Course instructors ensure availability of updated video lectures and study materials in alignment with the lesson plan.**
- **Ensuring implementation of Lesson Plan as per Academic Calendar: Monthly reports of syllabus coverage, number of conducted classes and attendance are collected.**
- **Ensuring effective utilization of MOOCS: Progress Reports are collected at regular interval.**

Practice 2: Facilitating Outcome Based Education

- **Ensuring Quality Examination System: IQAC ensures appropriate use of assessment tools for evaluating the performance of students. It also ensures quality of question papers, fair**

conduction of examination and timely publication of results.

- Assessing CO Based PO & PSO Attainment & Gap analysis: Results are analysed to generate CO based PO & PSO attainment report.
- Promoting Innovation & Research oriented Learning Environment: In order to promote innovation and entrepreneurship culture, IQAC ensures various provisions for adequate support/facility mechanisms.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

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

IQAC establishes review procedures and modalities to collect reports periodically on various aspects of the teaching-learning process and learning outcomes for preparing its Annual QualityAssurance Report (AQAR).

The two examples of reviews and implementation on the teaching-learning process propelled by the IQAC.

Example 1. Review Mechanism of Digital Teaching-Learning Process

In order to ensure the quality of digital teaching learning process, IQAC reviews progress reports of various academic aspects on a regular basis as outlined below.

- Reports on CO based PO and PSO Attainment
- Reports on Higher Studies
- Report on placement records

Example 2: Academic and Administrative Audit and Appraisal System

IQAC conducts Academic and Administrative Audit (AAA) in each academic year.

IQAC also ensures a transparent appraisal system for employees or various academic and administrative units of the Institute with an objective to recognize as well as acknowledge their contributions by felicitating with certificate and awards.

A few Examples of Initiatives for improvement of the teaching-learning process:

- **Introduction of specialization curricular programs on latest technologies to enhance the employability of the students**
- **Emphasis on availing more research grants or Government funded projects for achieving more credibility in academic sphere**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

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	https://www.nit.ac.in/annual-report.php
Upload e-copies of accreditations and certification	[View File](#)
Upload details of quality assurance initiatives of the institution	[View File](#)
Upload any additional information	[View File](#)

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

The institute provides an environment where people of all genders have equal rights, responsibilities and opportunities. To make the students understand the value of gender dignity and the importance

of equality, the institute takes initiative to organise various awareness events.

Number of gender equity promotion programs organized by the institution year-wise during 2020 - 2021

Year

2020 -2021

No. of program Conducted

5

1. Safety and Security:

Men and Women security guards are posted across the campus. Rotational duty is maintained by all faculty members for discipline and security. Total 305 numbers of close circuit camera are installed in different locations of the institute. A separate monitoring room is located ground floor of the institute.

1. Counselling:

Here the students are effectively guided by psychologist for career advancement and overall character development. A well-defined mentoring system is practised in the Institution.

(c) Common Rooms:

This institute always provides two separate common rooms for boys and girls. Table Tennis, Carom and Chess are the three indoor games provided by the institution. The common room of the college is equipped with all the above mentioned indoor games.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/7.1.1_Geo%20Tagged%20Images.pdf

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	View File
Any other relevant information	View File

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)

Solid waste management: The institute strictly maintains the waste segregation rules, laid by the government in new solid waste management Rules. All solid wastes from college and hostel are segregated at source and disposed properly. Green/Blue/yellow colour dustbins for biodegradable waste and red colour dustbins for non-biodegradable waste are placed in every floor along with laboratories, common rooms, wash rooms etc.

E-Waste management:

The E-Waste/scraps are selected, tabulated and then catalogued for systematic quoting procedures from a minimum of 3 qualified/certified recyclers. Then a CSQ with recommendation is forwarded to the NIT's Internal E-Waste committee by the System Administrator. Then each recycler is interviewed and a uniform yearly price negotiation takes place for selection of the most competent vendor/recycler. The items are then audited by the selected auditor along with the NIT's internal designated auditor (normally the team of System Administrator, Stores Manager and Accounts Officer). The recycler then awards the Green certificate in recognition of the institute's green initiative.

Waste recycling system

As per the new solid waste management Rules, laid by the government it has been advised that the biodegradable waste should be processed, treated and disposed of through composting or bio-methanation within the premises of the institute.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	**No File Uploaded**
Geotagged photographs of the facilities	[View File](#)
Any other relevant information	[View File](#)

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	[View File](#)
Any other relevant information	[View File](#)

7.1.5 - Green campus initiatives include

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

A. Any 4 or All of the above

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

File Description	Documents
Geotagged photos / videos of the facilities	[View File](#)
Various policy documents / decisions circulated for implementation	[View File](#)
Any other relevant documents	**No File Uploaded**

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

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

A. Any 4 or all of the above

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions/awards**
5. **Beyond the campus environmental promotional activities**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

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 reading materials, screen reading, etc.

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	**No File Uploaded**
Any other relevant information	View File

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).

The institute is a very successful minority institution which has, since its inception been at the forefront of inclusivity efforts. The events are not only celebrated to fit the annual activity list, but are also socially and developmentally beneficial in integrating students to the mainstream society.

Being a Sikh institution, the college has built its inclusivity efforts around the principles of Equality. Every year during Gurupurab , the institute organizes Langars or "Community Kitchens" where everyone irrespective of gender, caste or religion eat together. This is also an environment of socioeconomic inclusivity since the college takes opportunities to do charitable works such as bringing food and relief to under-privileged communities, stationeries and books to under-privileged children.

The institute is linguistically sound because the students celebrate Language Day every year through cultural events in their mother tongue. Another act of regional inclusivity is the celebration of Rabindra Jayanti and Bijoya Sammilani. The Institute celebrates festivals of religious importance such as Diwali, Durga Puja, Eid, Saraswati Puja, Vishwakarma Puja, Christmas Eve etc where all staff members and students participate freely. The institute hosts a number of international students in addition to local and regional students.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

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

The institution inculcates Constitutional values within the students. The highlights of such activities conducted by the institute are as follows-

Education and Awareness building of the Constitution and Constitutional Rights -

On 26th November each year the Institute celebrates Samvidhan Divas to commemorate the adoption of the Constitution of India. Values and Ethics in Profession is an essential part of the curriculum of the students from second year onwards.

Events that pertain to The Constitution-

Vigilance awareness week is celebrated in the institute complete with pledge taking ceremony which is the reaffirmation of Right Against Exploitation. The institute celebrates National Unity Day on 31st October as a general culmination of the Right To Freedom highlighting Equity among diversity. On 4th March every year, the institute celebrates National Road Safety Day. On 2nd October, the institute celebrates Gandhi Jayanti, the birth anniversary of the Father of the nation.

In addition, the organization celebrates events to promote the values of being a responsible citizen reflected in the Constitution of India.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

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

A. All of the above

**staff Annual awareness programmes on the
Code of Conduct are organized**

File Description	Documents
Code of Ethics - policy document	View File
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	View File
Any other relevant information	View File

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

Narula Institute of Technology celebrates various national and international commemorative days, events and festivals every year. We believe that every student should know their own history, heritage and culture. The students of this institution are breaking the boundaries of religion and caste and moving towards the developed India. Some commemorative days are observed by the students to learn from remembering, other days have a symbolic status and students participate in discussions about their thoughts and ideas through lecture and activities planned for that day. Celebrating various important days in any way provides a platform for the students where they can safely reflect without fear of judgement, reprimand or ridicule. Thoughts of great Indian personalities were instilled in the minds of the youth through exhibitions and ceremonies organized in these days. The institution practices a pluralistic approach to the functions of all religions and encourages students and teachers to demonstrate the same. Every year our institute organizes national festivals and birth/death anniversaries of great Indian personalities. Staff members and students get to know the importance of national integrity in the country in general and their role in it in particular.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<u>View File</u>
Geotagged photographs of some of the events	**No File Uploaded**
Any other relevant information	<u>View File</u>

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

The seamless platform independent online activity regarding innovative initiative taken by the institute is the 'Online Academic Resource Portal' by the respected faculties. In this practice, the faculties prepare the power point presentation according to the syllabus of the subjects to be taught in the coming semester. All important and recent information are covered in these lectures. These are recorded using different types of video recording mode and uploaded in the portal for future sharing to the students. Assignments, Quizzes, short tests could also be incorporated in the portal. The lectures are compact and very much helpful for the students to get the overview of the particular topics of the subjects before starting the class. It is also helpful for the examination preparation & doubt clearing process for the students.

File Description	Documents
Best practices in the Institutional website	<u>https://www.nit.ac.in/pdf/nit-naac/aqar_2021/7.2.1_Link%20Document.pdf</u>
Any other relevant information	<u>https://www.nit.ac.in/pdf/nit-naac/aqar_2021/7.2.1_Impact%20of%20Beyond%20Curriculum%20Training%20on%20Placement.pdf</u>

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)

As per the guidelines of Government of India under the slogan 'Make in India', NiT is trying to promote Start-up India. Some major initiatives are establishment of IIC under MHRD, the Technology Business Incubator by MSME as a host institute. Besides this the institute is awarded 4 star rating in IIC academic calendar 2020-21 by MEIC, the maximum star rating for the academic year 2020-21 and in the top 10 institutes in Eastern India. The institute is also recognised in the band "Performer" under the category "Colleges (Private/Self Financed) (Technical)" in Atal ranking of Institutions on Innovation Achievement 2021, a flagship program of the Ministry of Education, Government of India.

The institute has joined the campaign on implementing National innovation and start-up policy under the aegis of the MEIC and adopted the policy framed by MIC. The institute has tied up with Ministry of Micro, Small & Medium Enterprises to offer assistance to the business incubator through host institution in public private partnership mode.

The organisation has set-up the Idea-O-Meter with the aim of connecting, encouraging, promoting and celebrating the best creative minds. Ideas from diverse fields like technology, software, film, music, art, games, fashion, photography, comics, crafts are considered.

Part 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.

Narula Institute of Technology strives to address the local, regional, national and global developmental needs since it becomes autonomous. While developing the curriculum, sufficient emphasis is given to accommodate adequate domain knowledge along with substantive skill and aptitude of the students.

Following major factors have been considered for designing the curriculum:

- **Guidelines of the regulatory bodies**
- **Program-specific requirement of Industry and R&D sectors**
- **Benchmarking of the curriculum from pioneer Universities and Institutes in India and abroad**
- **Feedback of all major stakeholders**
- **Current emerging areas of technological advancement**
- **Societal demands**

The process of designing and revising the curricula is undertaken through a very transparent processinvolving faculty members at various stages like the Departmental Academic Committee (DAC), Board of Studies (BOS), Academic Council (AC) and Board of Governors (BOG). DAC initially prepares the draft curriculum considering all the factors as depicted along with Program Outcomes (POs) prescribed by the regulatory body. Then, the draft curriculum is placed before the Board of Studies (BOS) for exhaustive analysis and subsequent approval. Then, the curriculum is placed before the AC of the institute for further approval. After that, it is placed at the BOG for necessary permission to submit to the affiliating University.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	Nil

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

1

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	[View File](#)
Details of syllabus revision during the year	[View File](#)
Any additional information	[View File](#)

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

527

File Description	Documents
Curriculum / Syllabus of such courses	[View File](#)
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	[View File](#)
MoUs with relevant organizations for these courses, if any	**No File Uploaded**
Any additional information	[View File](#)

1.2 - Academic Flexibility

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

228

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	[View File](#)
Any additional information	[View File](#)
Institutional data in prescribed format (Data Template)	[View File](#)

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

12	
File Description	**Documents**
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

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

Courses those address the Gender The outcome attempts to acknowledge that we would like to know our psychological, social, economic, and political roles. Knowledge and understanding of the differences in roles and relations between women and men, especially within the workplace: it is important to continuously raise gender awareness and understanding among officialdom and therefore the public generally.

Courses based on Environment and Sustainability Studying Environmental Science is very important as it is related to where we live and where we are sharing the resources with all the other species on the Earth. The study of the courses enlightens with the knowledge how to conserve the natural resources and how to stop the degradation of the resources by taking the safety measures and awareness among humans. Environmental studies will assist an engineer in finding solutions to environmental issues in an environmentally responsible manner.

Courses based on Human Values and Professional Ethics Human Values and Professional-Ethics aims to educate students about its importance along with the various theories of self development, so as to mould them into efficient, humane professionals. In addition to conveying knowledge about human values and professional ethics that should shape the conduct of the engineering profession.

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	View File
Any additional information	View File

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

23

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

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

2873

File Description	Documents
List of students enrolled	View File
Any additional information	View File

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

996

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the	A. All 4 of the above

syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.nit.ac.in/pdf/feed-2020-21.pdf
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

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	https://www.nit.ac.in/pdf/feed-2020-21.pdf
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

805

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

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)

135

File Description	Documents
Any additional information	[View File](#)
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

·The institution organizes a common diagnostic test for freshers across the departments. Based on the result of diagnostic test and +12 results, the slow learners and advanced learners are identified.

·The learning level are identified by the concerned faculty based on their slot test marks, class assignments.

Strategies for slow learners

- For the 1styear students, they are provided the special training on the subjects like physics, mathematics and English for brush up the concepts.

- Remedial classes are conducted to solve the Question papers.
- Doubt clearing classes are conducted to clear doubts.
- Through mentor-mentee scheme the mentor can give one-to-one academic and personal counseling.
- Bilingual explanation is imparted after the class hours for their better understanding of the concepts.

Strategies for advanced learners

- For the 1styear students, they are encouraged on project-based learning on the subjects like physics and chemistry.

- Encouraged to participate in different competitions like paper presentation in various Seminars/ Conferences/ Workshops, co-curricular activities.
- During semester break, two-week long special training sessions held on advance technologies.

- **Encouraged to enroll in MOOC Courses for advanced subjects.**
- **The academic achievements are extremely encouraged and highly praised through award ceremonies.**
- **Department provides special classes for the preparation of GATE exam.**

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

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2021	**2994**	**232**

File Description	Documents
Upload any additional information	[View File](#)

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:

Faculty strives to implement best possible way to engage students in teaching so that teaching actually happens some of the ways are Experiential learning methods, participative learning and problem solving methodologies.

Experiential learning methods:Practical approach with theoretical knowledge is the necessity to quality learns of every field. Experimental learning focuses on workshop, laboratories, Project as well as virtual laboratories ofknowledge and skills to real-world experiences to further increase learner'sknowledgeand develop competence in skills and behaviors.

Participative learning methods:Apart from traditional chalk and talk, the power point presentations are used through ICT tool like; projector, smart board etc. in the classrooms. Pedagogical Techniques like; Think-Pair-Share, Peer Learning, Predict-Observe-Explain, Gaming methods and model presentation etc. are implemented in the class rooms.

Problem solving methods:Students enrich the problem solving ability through tutorial classes, software base laboratories courses and readiness of competitive examination through the practice of MCQ etc. The students are also trained the technical paper writing to inclined interested student towards research. Collaborative efforts with the industry personnel for enhancing the learning levels of the graduates like; project work. Different modern tool, like MOOCs, Moodle are used for enhancing the learnability of students.

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/2.3.2%20List%20of%20ICT%20enabled%20tools.pdf

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

The faculty of Institute use all the ICT enabled tools completely including online resources for effective teaching and learning process. General ICT Tools are Used by faculty are: Desktop and laptops, Projector, Smart board, tablets, Scanners, Microphones, interactive white board and CDs, Flash discs etc.

The faculty at NIT use various ICT enabled tools to enhance the quality of teaching-learning like LMS, Virtual labs.

To teachmathematicalsubjectsinonlinemode, facultyhaveusedvariousonlinetools like-whiteboard in Microsoft teams, Jamboard in Google meet, Graphic tablet etc.

The faculty conducts classes throughSmart Interactive Flat Panel, which is aMulti Touch Devicewith 4K Resolution, Inbuilt Speakers, Gesture Annotation.Faculty regularly conducts online tests through MyPerfectice platform-It is an online learning platform and it allow the students to take test anytime-anywhere.

E Content

The faculty uses NPTEL, Coursera and different Swayam Courses in their presentations as references.

The faculty uses and also refers to the e content at the Librarywhich hasIEEE ASSP(e-journal), access toNational Digital Library of India andBritish Council Library, a collection of more than 2000+ E-books from renowned publishers, which are accessible through FTP server with remote access facility.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/2.3.2%20List%20of%20ICT%20enabled%20tools.pdf
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

156

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

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

Academic Calendar:

The institute prepares its Academic Calendar in adherence to the guidelines of the Regulatory bodies incorporating curricular activities, additional courses, events and co-curricular activities for the UG and PG programs. Each academic year is divided into two semesters. Academic calendar covers all important dates for students and faculty such as start and end day of a semester, slot for Beyond Curriculum Training, mid term examinations, exam form filling, final examinations, holidays, industrial training/internship during Semester breaks, vacation period, foundation day of the institute, date of Degree Award Ceremony, sports, cultural activity etc.This enables the students and faculty to be well prepared, minimize their chances of academic loss and take full advantage of the flexibility provided by the credit system.

The academic calendar is displayed on institute website (https://nit.ac.in/academic-calendar.php) and all the department notice boards.

Teaching Plans:Department Academic Committee meeting is conducted by the Heads of the departments with their respective faculty well in-advance of commencement of the semester for allocation of subjects.Every faculty prepares the academic teaching planof the course content, spread over the allotted lecture hours, to ensure a uniform pace of teaching,which is approved by HOD.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	[View File](#)

2.4 - Teacher Profile and Quality

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

232

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	[View File](#)
List of the faculty members authenticated by the Head of HEI	[View File](#)
Any additional information	[View File](#)

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

61

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	**No File Uploaded**
Any additional information	[View File](#)

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time

teachers' total teaching experience in the current institution)

1492

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
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

14

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

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

7

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

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

IT Integration:

The entire evaluation process has been done through online examination management system.

Since 2020-21, in even semester the semester examination started to conduct through drive link. Question paper download links were available on the examination day and master sheet put up on the NIT website one day before the examination. Students could download the specific subject question paper which is password protected. Passwords were given to the students 10 minutes before the examination.

Students make a single PDF file and upload to a drive link in the central server.

CIA:

Class Test and Slot Test: 15 marks

Assignment & Quiz: 10 marks

Attendance: 5 marks

In 2021 two slot tests were conducted in LMS within a stipulated period notified by COE. The question papers had to send by mail to controller and assistant controller before examination started.

Central Assessment

- Assessment of answer scripts of semester examination are done in a central system by internal and external examiners.
- Answer key is prepared by paper setters / head examiners for all subjects and uploaded in the online system.
- Examiner is putting the marks for answers in specified spaces provided in evaluation system.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	Nil

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 ensures appropriate determination and dissemination of Programme Outcomes (POs) and Course Outcomes (COs) to fulfil the objectives of OBE.

POs highlight the expected professional accomplishments at a broader level upon completion of a programme. The POs as defined by the NBA for engineering graduates are followed in entirety for all the engineering programmes. The COs of a course indicate the expected scope of various competencies upon completion of the course. The COs are generally formulated using action verbs from Bloom's Taxonomy-based learning levels.

The soft copy of each active programme's syllabus, which includes POs and course-specific COs as well as other curricular details, is uploaded to the institution's website for easy and authentic reference. Every department maintains a course file for each active curricular course, detailing course outcomes and their correlation with POs. At the beginning of a semester, each course file is reviewed to confirm standard specifications of COs before apprising them to the students during initial lectures. Additionally, the POs of a programme are kept at prominent locations in the respective department, viz. classrooms, department-corridors, faculty rooms, and laboratories, for extending the scope of public view.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

The attainment of a program outcome (PO) is evaluated analysing the attainment levels of course outcomes (COs) having correlation with the PO and conducting surveys on POs.

Direct Assessment Strategies:

An attainment level (on scale 3) for a particular CO is determined by the percentages of students who earned more than a specified percentage of the total points allotted for the CO-specific questions across all tests.

```
Direct CO-Attainment Level = Attainment Level in End-Semester
Examination (70% weightage) + Attainment Level in Intermediate
Assessment (15% weightage) + Assignment (10% weightage) +
Attainment Level in Attendance (5% weightage)

Direct PO Attainment Level of a course = Normalized AVG(CO-
POCorrelation Level x Direct CO-Attainment Level) on scale 3.

The overall attainment of a PO is computed by taking an average
across all the courses.

Indirect Assessment Strategies:

These are implemented by conducting Student Exit Survey, Employer
Survey and Alumni Survey. Each survey form collects opinion
rating for each PO in terms of the perceived attainment level
achievable through the curricular and beyond curricular
activities.

FinalPOAttainment Score (%) = (80% weightage) x (Direct PO
Attainment Level) + (20% weightage) x (Indirect POAttainment
Level)



Sample of CO-PO Attainment
```

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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

```
814
```

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/2.6.3_Outgoing%20Students.pdf

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://www.nit.ac.in/pdf/nit-naac/aqar_2021/SSS_2020_21.pdf

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

Research being Institution's major thrust area, has been emphasized since 2012 by creating the Research & Development (R&D) cell which was further strengthened by creating research policy in 2015 and approved by Board of Governors under agenda no 8 dated 27.08.2015, followed by subsequent amendments in the year 2016, 2017,2018 and 2019. The R&D policy is focused to promote research, funding and systematic monitoring of research works. The Research Policy was laid down bearing in mind the necessity of promoting the research environment and culture amidst the faculty members which is available in the website www.nit.ac.in and copies in central library and departmental library for easy access to faculties. All faculty members follow the R&D policy to establish a research environment in the institute. The Research & Development initiatives aim to build research attitude for faculty. The progress of faculty members doing Ph.D. and ongoing funded projects are discussed. Research and innovation are promoted among students by revising the undergraduate course curriculum in the year 2018 where a mini-project has been introduced from the very first year. The institute emphasises to promote collaborative research work and multidisciplinary research work has been one of the major thrust areas of these committee.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.nit.ac.in/pdf/R&D%20Policy%20NiT.pdf
Any additional information	View File

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)

6.96

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

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

2

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
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)

157.2

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

3.2.2 - Number of teachers having research projects during the year

42

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

3

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

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

7

File Description	Documents
Supporting document from Funding Agencies	[View File](#)
Paste link to funding agencies' website	**Nil**
Any additional information	[View File](#)

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.

Response:

The Institute strives to promote innovation, entrepreneurship skills among the students and faculty to extend knowledge and transfer technology.

Some Initiatives:

- **2016: MoU between CII and Institute done to provide consultancy and technology sharing.**
- **2018:Institute recognized as Host Institute for implementation of the scheme "Support for Entrepreneurial and Managerial Development of MSME's through incubator" .**
- **2018-19: Institute established Institute Innovation Council (IIC) as per norms of Innovation Cell, Ministry of HRD, GoI during IIC-Calendar year 2018-19.**
- **2018-19: Institute undertook various activities prescribed by the Innovation cell, Ministry of HRD, GoI and scored 2 stars.**
- **2019-20: Institute undertook various activities prescribed by the Innovation cell, Ministry of HRD GoI to promote innovation and start up in campus and scored 5 stars and listed in the top 5 institutes in the Eastern region.**
- **2020:Institute re-registered as Host Institute for implementation of the scheme "Support for Entrepreneurial and Managerial Development of MSMEs through incubator"**
- **2020: Faculty members undergone Innovation Ambassador Training in March 2020. Faculty member nominated for the NISP training and implementation in the Institute.**
- **2020-2021: Events like hackathon, Idea Competitions, Project exhibition were organized forstudents to exhibit their innovative ideas.**

- 2020-2021: Scored 4 star ranking by MIC, MHRD, GoI

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.nit.ac.in/pdf/nit-naac/3.3.1_Additional%20Documents.pdf

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

61

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation 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	A. All of the above

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	View File
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

4

File Description	Documents
URL to the research page on HEI website	**Nil**
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	[View File](#)
Any additional information	[View File](#)

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

65

File Description	Documents
List of research papers by title, author, department, and year of publication	[View File](#)
Any additional information	[View File](#)

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

172

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/3.4.4_FINAL.pdf

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

163

File Description	Documents
Any additional information	**No File Uploaded**
Bibliometrics of the publications during the year	View File

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

12

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	**No File Uploaded**

3.5 - Consultancy

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

50.2

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

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

5.27

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

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

Response:

The mindset to work for the betterment of the neighbourhood and society is being nurtured through the mandatory noncredit course of NSS and extended activities for Mandatory Additional requirements (MAR). To instill the socialistic approach among the first-year students, the National Service Scheme (NSS), an initiative by the Ministry of Youth Affairs and Sports, Central Government of India, is considered mandatory. Due to the presence of this opportunity, the students volunteer to aid the society by several social works like tree plantation, NGO visits, distribution of handmade paper bags as an alternative to plastic bags to the commoners, mass distribution of masks and sanitizers in the dark hours of the pandemic are some of the major steps taken to aid society under the scheme of NSS.

Some endeavours:

1.Swachh Bharat Abhiyan

2.Blood Donation Camps

3.Plantation Programmes

4.AIDS Awareness Programmes

5.World Water Conservation Day

6.World Tobacco Prohibition Day

7.Special Programmes Related to Health and Hygiene among students in surrounding community people.

8.Women Empowerment Programmes etc.

Under the initiative of Unnat Bharat Abhiyan, by the Ministry of Education, institute has extended its activities to five different villages in an attempt to bring about the light of socio-economic upliftment of the families.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

18

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
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)

26

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

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

2560

File Description	Documents
Reports of the events	View File
Any additional information	View File

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

40

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

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)

1

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
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.

Response:

The institute has been making an untiring endeavour for ensuring adequate availability and optimal utilization of physical infrastructure for smooth conduction of teaching learning activities within a well maintained lush green campus. It has adequate infrastructure in alignment with the regulatory norms as listed below.

- **The institute has 52 ICT-enabled ergonomically designed classrooms**
- **The institute has 8 seminar halls and one conference room with adequate seating accommodations.**
- **Adhering to the specifications as laid down by the regulatory body, the institute always makes sincere endeavours to ensure quality of all of its UG and PG laboratories.**
- **The entire campus has 980 active PCs with the latest i7/i5/i3/Core2Duo, 16GB/8GB/4GB/2GB DDR4 RAM hardware features.**
- **Institute provides uninterrupted access to network services with 200 Mbps internet bandwidth. The campus is Wi-fi enabled with 24/7 internet connection facilities having adequate band-width for conducting live sessions.**
- **The institute has five digital studios which have the facility for recording and projection with audio visual system. The institute also has a dedicated language lab equipped with the most advanced AV System and ISIL software.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

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

Response:

Participating in extracurricular activities make the students do

well in their academics, since they learn discipline, time management, scheduling which leads to a better learning process. The institute tries to provide the best of facilities for these. Some of them are as follows:

- The institute has 2 multipurpose rooms each of 278 sq. m area with 400 seating capacity for cultural activities Institute proclaims to have 2 common rooms with capacity of 60 each and open space with a capacity of 100 for cultural activities.
- A specific Yoga room of 278 sq. m area with 40 accommodating capacity is available.
- At the outset, the institute is having sufficient, adequate and varied facilities available to sustain the diverse indoor and outdoor activities. The institute has multipurpose ground having area of over 3685 Sq. m.
- There are one modern Gymnasium with the latest equipment to maintain body fitness for the use of students and teachers. The area of the gymnasium is 69 sq. m.
- Institution also has a dedicated sound proof auditorium of 278 sq. m with 400 seating capacity.

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional information	Nil

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

60

File Description	Documents
Upload any additional information	[View File](#)
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

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

100.66

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
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)

Response:

Yes, Libraryis automated using the IntegratedLibrary Management System.

- **Name of the ILMS software: # LIBMAN**
- **Nature of automation (fully or partially): Partial Automated**
- **Version: 5.3**
- **Year of automation: 2017**

 # LIBMAN Software is supporting the workflow of the Automated Library by comprising of seven modules. These are as follows-

1. Master

2. Cataloguing

3. Circulation

4. Serial Control

5. Utility

6. Query

7. Reports

Web OPAC

Institutional OPAC may be searched to check accessible status of

books through the URL
http://122.252.249.26:92/forms/frmdashboard.aspx# .

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**

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	View File
Upload any additional information	View File

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

25.22

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

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

205

File Description	Documents
Upload details of library usage by teachers and students	[View File](#)
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

Initiatives implemented for upgrading IT facilities:

- **A constant bandwidth of 200 Mbps is being provided by the institute during 2020-2021 academic year.**
- **The institute has effectively and periodically marched on from a handful of Wi-Fi hotspots to a robust and seamless Wi-Fi campus with 25 number of access points.**
- **The Institute has 980 numbers of working computers**
- **List of PCs purchased and the allocated budget for upgrading the IT facilities for 2020-21 are as follows:**

Year

No. of PCs Purchased

Computer Specifications

Budget Allocation (INR in Lakhs)

Budget Utilization (INR in Lakhs)

2020-2021

55

Intel Core i7, 16 GB DDR4 RAM, 1 TB HDDs, TFT monitor

50.88

48.17

- **NIT is secured by a formidable 300E Fortigate UTM**

- The entire campus is covered by over 305 numbers of CCTV cameras which provide 24x7 surveillance with 15 days backup facility.
- The institute has handsome number of ICT enabled classrooms with overhead projectors with another 8 projectors being added in the last financial year.
- Institute currently has 3 biometric sensor machines for its finger-print attendance.
- It is equipped with a dedicated Server Room with 7 high-end Servers. The whole IT infrastructure is being maintained through this Server Room.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2994	896

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

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	A. All four of the above

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**
List of facilities for e-content development (Data Template)	[View File](#)

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

115.47

File Description	Documents
Audited statements of accounts	[View File](#)
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.

Response:

The Institute has established system & procedures for maintaining and utilizing physical, academic, and support facilities as follows:

1. The institute has Standard Operating Procedures (SOP) for maintaining and utilizing physical, academic, and support facilities.

2. The institute deputes a civil supervisor and admin executive for the inspection of the Institute building.

3. Regular peer vigilance is being conducted through physical and digital modes.

4. Annual Maintenance Contracts are followed by the institute.

5. Repairs of the various items are done by trained personnel.

6. Recurring training is being provided to faculty and staff

members for performing high-end equipment.

7. The institute conducts preventive maintenance to reduce breakdown.

8. Calibration of the laboratory equipment is done regularly.

9. The institute maintains its cleanliness and hygienic gradation by sufficient housekeeping staff.

Utilization

- Classroom allotments are done by the timetable committee.
- Laboratories allotments are done by the respective HOD.
- Seminar halls booking is made by HOD.
- The auditorium booking is made through the "Registrar section".
- Students can avail of the college bus facilities through enlisting their names to admin executive as per the availability.
- The sports materials and ground allotments are done by the sports-in-charge as per the availability.

File Description	Documents
Upload any additional information	View File
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

255

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

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

414

File Description	Documents
Upload any additional information	[View File](#)
Institutional data in prescribed format	[View File](#)

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	https://www.nit.ac.in/student-centric-programs.php
Details of capability development and schemes	[View File](#)
Any additional information	[View File](#)

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

2634

File Description	Documents
Any additional information	[View File](#)
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	[View File](#)

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and

A. All of the above

ragging: Implementation of guidelines of 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	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

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

721

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

39

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	View File

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

10

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

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

2

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

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

Student Council:

Formation of the Student Council:

The Student Council is formed in the month of July. The students are invited to join the clubs of their own choice. The registration to the clubs is done online and the portfolios are nominated by the college authority.

Vision: to develop leadership qualities and make the students socially responsible.

Mission:Assisting the students' innovativeness & activities related to various technological and non-technological oriented projects to enhance their hidden talent and creativity.

Student Council & representation of students on academic &

administrative bodies/committees

The student representatives are there in the Anti-Ragging committee, Literary committee, cultural committee, sports committee, and Hostel -Canteen committee.

Apart from this, our college aims at the all-around development of students by organizing several extracurricular activities throughout the year.

Various activities are initiated by the above-mentioned clubs. Some of the activities that are initiated are mentioned below:

1. Workshops & Seminars

2. Annual Sports

3. Publication of the magazine

4. Intra and Inter-college academic competitions

5. Debates & Quizzes

6. Exhibitions

7. Industry Visits

8. Campus Beautification Program

9. Social Service

10. Intra and Inter-college non-academic competitions

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

15

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
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

The NiT Alumni Association was established and registered under the Societies Registration Act 21 of 1860, formed to build an actively engaged alumni network during the year 2006-2007 with a Registration No S/1L/41814.

The institute has a working website (https://www.nit.ac.in/alumni/), a Facebook page (https://www.facebook.com/NITAlumni), and an official Whatsapp group for the alumni interaction.

The alumni member contributes significantly to the development of the institution in following ways:-

Academic contribution:

NiT Alumni Association organizes special training programs like Training program on Basic Electronics, Embedded systems, PLC, SCADA & PCB Design. In addition to this, the association also provides feedback from the industry at various platforms, like international conferences, seminars, industry conclaves, industry visits, etc. The Alumni contribute to the curriculum modernization and design process. The BOS includes alumni representatives from industry, and academia as departmental alumni nominees.

Placement contribution:

Besides this, NiT is also linked with their Alumni through the official Whatsapp group and social media to extract the linkage of industries and reputed universities for higher education.

Alumni have a separate portal on the Institution's website asalumni.nit.ac.in.

Extra-curricular activities:

Every year Alumni members actively participate in extracurricular activities like blood donation camps, cricket, football match, and cultural programs.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/5.4.1_Alumni%20event%20report.pdf

5.4.2 - Alumni's financial contribution during the year	C. 5 Lakhs - 10 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The institute aims at delivering Engineering education through an effective teaching learning process to compete with global standards.The process gets more efficacious after getting its 'Autonomy' status in the year 2015.The institute's core tenets are evident in the Vision and Mission which was revised in 2018.

The Institution also excels in academics for over two decades due to the continuous review and improvement of quality policies under the effective leadership bodies of BOG, Academic Council, BOS, IQAC along with Principal, Registrar, HODs, faculty etc. The efficient leadership of the Management helps to achieve the Vision, Mission and Quality Policy of the institute reflected through a host of innovative activities like teaching-learning, creation of state of art infrastructure, placement drive and in organizing several other activities.

The BOG comprises of a team of academicians, professionals and philanthropists whose sole motto is to serve the society, motivate and encourage the budding students to build entrepreneurship qualities.

Therefore, through effective leadership the governance of the institute targets toward the attainment of the Vision, Mission and Quality Policy stated above.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	Nil

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

The effective leadership is reflected in various institutional practices such as decentralization and participative management

The Institution has a practice of participative management. It provides an opportunity to all the employees and stakeholders to participate in the decision making process. The decentralized governance model is evident in every sphere- academic, financial as well as administrative.All matters are discussed and decisions are made through recommendations of various Statutory and Non-Statutory committees represented both by teaching and non teaching staff, students, parents, alumni, employer, etc.

Practice of Decentralization and Participative Management:

The top management has decentralized its financial, administrative and academic powers to the Principal, Faculty members and administrative staff from time to time. Decentralization & delegation of powers come effectively by the aid and assistance of BOG by constituting statutory and non-statutory committees like Academic Council, IQAC, NSS, Anti Ragging etc. Some of the decentralization examples are discussed below:

Academic Decentralization

Administrative Decentralization

Financial Decentralization

A case study showing degree and extent of powers in financial decentralization is also provided in additional document.

File Description	Documents
Upload strategic plan and deployment documents on the website	**No File Uploaded**
Upload any additional information	<u>View File</u>
Paste link for additional Information	<u>https://www.nit.ac.in/pdf/nit-naac/aqar_2021/Committee%20list.NAAC.pdf</u>

6.2 - Strategy Development and Deployment

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

The Institute way back in the year 2020 vide BOG agenda no.10 dated 23th August 2020conceptualized the following Strategic/Perspective plan for quality enhancement:

i) Target in Ranking andaccreditation:

NAAC A+ grade by 2021QS Rating-5 STAR for the institute by 2022

and 5 STAR for any department by 2023

NBA-accreditation of all UG and PG programs by 2022

NIRF ranking: Top 150 institute by 2021and within Top 100 institute by 2023.

ii) Encouragement in Research culture in faculty and students

iii) Empowering Human Resource Management

iv) Strengthening collaboration with Industry

v) Enhancing Outcome of Students

vi) Restructuring and upgrading need-based Curriculum.

Above initiatives were launched on war-footing in subsequent

years with an eye on year-marked milestones. However, due to several impediments the expectation was achieved shortly.

The activity successfully implemented based on the strategic plan:

During pandemic, we have adopted an online mode of education. Hence it becomes tremendously necessary to create a digitized platform of study material which could be available to the student from their remote area. Starting 2020 our combined effort was to evolve a digitized platform and implement the system through FTP server where a large number of study materials can be accessed through individual user id by all faculties and students in various forms like Books, Journals, Laboratory experimental demonstration video, and Training Materials.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	https://www.nit.ac.in/pdf/strategic-plan.pdf
Upload any additional information	No File Uploaded

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.

Way ofthe Institute's functioning follows the concept of Decentralization. The delegation of power and authority herein proved to be a very successful and effective administrative system.

The ORGANOGRAM has been revised in 2021 to incorporate further distribution of responsibility heads on a much rational manner.

STATUTORY COMMITTEE MEETING FREQUENCIES:

Statutory committee

Responsibility

Frequency of the meeting/year

BOG

Define the role and mission and set the strategic directions for the Institute

Four

ACADEMIC COUNCIL

Maintain of standards of education, teaching and training, interdepartmental coordination, research, examinations etc.

Twice

BOS

To frame the content of various courses, reviewing and updating, introducing new courses, mapping CO, PO, Review attainment level etc.

Twice

FINANCE

Monitor Institute's Finance and Budget

Twice

IQAC

To develop a quality system for consistent and catalytic programmed action to improve the academic and administrative performance of the Institute

Four

The institute had received its service rule in the year 2018. Recruitments are made following the eligibility criteria prescribed by the statutory bodies.

Annual increment is given to staff members on the basis of performance appraisal through analysis of self-appraisal form and feedback from various stakeholders. Awards and recognition are given to the faculty for contribution in R&D activity.

The faculty and staff submit their application for consideration under Career Advancement Scheme of the Institute and the same is

processed as per the Promotional Policy of the Institute.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.nit.ac.in/organogram.php
Upload any additional information	**No File Uploaded**
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) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

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

Leave Rules: (For all employees except categorically mentioned)

A. CL:12 days annually

B.EL:i.30 days annually for vacational employees,

ii.20 days for non-vacationalemployees.

C.Sick Leave: 10 days/ year

D. Maternity Leave for female employees:90 days

E.Study Leave:Facultymemberswith at least 3 years of service for higher qualifications like Ph.D, Post Doc not more than two years

with one year an extension.

F.Study Leave under QIP:Leave up to three years granted for Ph.D program.

Other benefits for Teaching and Non-Teaching Staff

a. CPF, Gratuity provided

b. DA, HRA and Medical allowance

c. Group Medical Insurance

d. Financial assistance to attend conferences, workshops, FDP, seminars and for filing patents

e. Free of charge transport facilities at selected locations provided

f. Interest Free loan

g. Annual Appraisal

h. CAS

i. Awards & Recognition for research

j. Scholarship policy for Employee's children to study in NIT

k. Grant of Seed Money

l. Ph.D Increment

m. Gym, Medical center

n. ATM facility at campus

o. ESI for all eligible employees

p. Festive bonus for Non-Teaching Staff

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/6.3.1_Service%20Rule%20Final%20scan.pdf

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

232

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)	View File

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

48

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

193

File Description	Documents
Summary of the IQAC report	**No File Uploaded**
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The internal audit and statutory audit by professional chartered firms is conducted in the Institute. Over the years it is being carried out regularly and no serious financial irregularity has ever been reported.

Internal audit checks all transactions and the compliance level across the hierarchy and accuracy and authentication. Regulatory compliances along with monitoring of tax liabilities was conducted by M/SSubhendu Dutta & Co, Cost Accountant,FRN No. 100863, 66 Malanga Lane, Kolkata 700012 for the year 2015-16, 2016-17 and 2017-18 .DPC & Associates, Cost Accountants,FRN No. 001147, 3 Kapalitala Lane, Kolkata 700012.

M/s. Bandyopadhyay Associates, Chartered Accountants of 350(370/06) Pearpore Road, P.O- Sheoraphuli, Dist- Hooghly, Pin-712223 West Bengal are the statutory auditor of this institute. They conduct the audit to give a fair view of the state of affairs and whether the financial statements are free from material misstatement at the year end.

The external auditors also review the status of procedural and transactional compliance in all financial transactions of the Institute mainly conducted through ERP

In the history of the Institute there has not been a single occasion when the statutory auditors pointed out qualifications and other irregularities in the Balance Sheet.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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)

7.07

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

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

Resource mobilization policy and procedure:

The Institute generates its fund from student & hostel fees, Project Fund and contribution from Trust.

Student fees constitute the bulk share but the total funds generated always remain in short supply to meet emerging demand. Efforts in recent past have been made for additional resources through sponsored research funds and entrepreneurship development programmes.

The institute utilises its funds on the basis of systematic budgetary control. It utilises its funds for investment towards cost of Infrastructure development and augmentation, new laboratory setup, procurement of new laboratory equipments, value addition to its old equipments, to meet the staff cost ,expenditure towards library books, journals and subscriptions, to purchase the consumables for laboratory use, maintenance for academic and physical support facility, holding seminars and workshops for faculties and students. Fund utilised for maintenance for hostel facility, financial assistance to Faculty and Staff members to attend seminar, conference and workshop.

Funds are utilised as per the budget sanctioned for a particular year. All out efforts are made that there is no excessive expenditure; money is spend as per administrative sanctions; chances for frauds and embezzlements are minimised; and purchases are made as per standard procedure.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

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)

Response:

Internal Quality Assurance Cell (IQAC) conducts activities to ensure the qualitative outcomes of various units by formulating quality strategies since the inception on 3rd January 2012.

Following two practices are provided which are exercised meticulously as a result of institutionalizing the quality assurance initiatives by IQAC.

Practice 1: Facilitating Digitization of Teaching-Learning Process:

- Ensuring Quality and Utilization of LMS content: Course instructors ensure availability of updated video lectures and study materials in alignment with the lesson plan.
- Ensuring implementation of Lesson Plan as per Academic Calendar: Monthly reports of syllabus coverage, number of conducted classes and attendance are collected.
- Ensuring effective utilization of MOOCS: Progress Reports are collected at regular interval.

Practice 2: Facilitating Outcome Based Education

- Ensuring Quality Examination System: IQAC ensures appropriate use of assessment tools for evaluating the

performance of students. It also ensures quality of question papers, fair conduction of examination and timely publication of results.

- Assessing CO Based PO & PSO Attainment & Gap analysis: Results are analysed to generate CO based PO & PSO attainment report.
- Promoting Innovation & Research oriented Learning Environment: In order to promote innovation and entrepreneurship culture, IQAC ensures various provisions for adequate support/facility mechanisms.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

IQAC establishes review procedures and modalities to collect reports periodically on various aspects of the teaching-learning process and learning outcomes for preparing its Annual QualityAssurance Report (AQAR).

The two examples of reviews and implementation on the teaching-learning process propelled by the IQAC.

Example 1. Review Mechanism of Digital Teaching-Learning Process

In order to ensure the quality of digital teaching learning process, IQAC reviews progress reports of various academic aspects on a regular basis as outlined below.

- Reports on CO based PO and PSO Attainment
- Reports on Higher Studies
- Report on placement records

Example 2: Academic and Administrative Audit and Appraisal System

IQAC conducts Academic and Administrative Audit (AAA) in each academic year.

IQAC also ensures a transparent appraisal system for employees or various academic and administrative units of the Institute with

an objective to recognize as well as acknowledge their contributions by felicitating with certificate and awards.

A few Examples of Initiatives for improvement of the teaching-learning process:

- **Introduction of specialization curricular programs on latest technologies to enhance the employability of the students**
- **Emphasis on availing more research grants or Government funded projects for achieving more credibility in academic sphere**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

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	https://www.nit.ac.in/annual-report.php
Upload e-copies of accreditations and certification	[View File](#)
Upload details of quality assurance initiatives of the institution	[View File](#)
Upload any additional information	[View File](#)

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

The institute provides an environment where people of all genders have equal rights, responsibilities and opportunities. To make the students understand the value of gender dignity and the importance of equality, the institute takes initiative to organise various awareness events.

Number of gender equity promotion programs organized by the institution year-wise during 2020 - 2021

Year

2020 -2021

No. of program Conducted

5

1. Safety and Security:

Men and Women security guards are posted across the campus. Rotational duty is maintained by all faculty members for discipline and security. Total 305 numbers of close circuit camera are installed in different locations of the institute. A separate monitoring room is located ground floor of the institute.

1. Counselling:

Here the students are effectively guided by psychologist for career advancement and overall character development. A well-defined mentoring system is practised in the Institution.

(c) Common Rooms:

This institute always provides two separate common rooms for boys and girls. Table Tennis, Carom and Chess are the three indoor games provided by the institution. The common room of the college is equipped with all the above mentioned indoor games.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/7.1.1_Geo%20Tagged%20Images.pdf

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	[View File](#)
Any other relevant information	[View File](#)

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)

Solid waste management: The institute strictly maintains the waste segregation rules, laid by the government in new solid waste management Rules. All solid wastes from college and hostel are segregated at source and disposed properly. Green/Blue/yellow colour dustbins for biodegradable waste and red colour dustbins for non-biodegradable waste are placed in every floor along with laboratories, common rooms, wash rooms etc.

E-Waste management:

The E-Waste/scraps are selected, tabulated and then catalogued for systematic quoting procedures from a minimum of 3 qualified/certified recyclers. Then a CSQ with recommendation is forwarded to the NIT's Internal E-Waste committee by the System Administrator. Then each recycler is interviewed and a uniform yearly price negotiation takes place for selection of the most competent vendor/recycler. The items are then audited by the selected auditor along with the NIT's internal designated auditor (normally the team of System Administrator, Stores Manager and Accounts Officer). The recycler then awards the Green certificate in recognition of the institute's green initiative.

Waste recycling system

As per the new solid waste management Rules, laid by the government it has been advised that the biodegradable waste should be processed, treated and disposed of through composting or bio-methanation within the premises of the institute.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	**No File Uploaded**
Geotagged photographs of the facilities	View File
Any other relevant information	View File

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	View File
Any other relevant information	View File

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	<u>View File</u>
Various policy documents / decisions circulated for implementation	<u>View File</u>
Any other relevant documents	**No File Uploaded**

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

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	**A. Any 4 or all of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<u>View File</u>
Certification by the auditing agency	<u>View File</u>
Certificates of the awards received	<u>View File</u>
Any other relevant information	<u>View File</u>

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,	**B. Any 3 of the above**

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	**No File Uploaded**
Any other relevant information	View File

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).

The institute is a very successful minority institution which has, since its inception been at the forefront of inclusivity efforts. The events are not only celebrated to fit the annual activity list, but are also socially and developmentally beneficial in integrating students to the mainstream society.

Being a Sikh institution, the college has built its inclusivity efforts around the principles of Equality. Every year during Gurupurab , the institute organizes Langars or "Community Kitchens" where everyone irrespective of gender, caste or religion eat together. This is also an environment of socioeconomic inclusivity since the college takes opportunities to do charitable works such as bringing food and relief to under-privileged communities, stationeries and books to under-privileged children.

The institute is linguistically sound because the students celebrate Language Day every year through cultural events in their mother tongue. Another act of regional inclusivity is the celebration of Rabindra Jayanti and Bijoya Sammilani. The Institute celebrates festivals of religious importance such as Diwali, Durga Puja, Eid, Saraswati Puja, Vishwakarma Puja, Christmas Eve etc where all staff members and students participate freely. The institute hosts a number of international students in addition to local and regional students.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)

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

The institution inculcates Constitutional values within the students. The highlights of such activities conducted by the institute are as follows-

Education and Awareness building of the Constitution and Constitutional Rights -

On 26th November each year the Institute celebrates Samvidhan Divas to commemorate the adoption of the Constitution of India. Values and Ethics in Profession is an essential part of the curriculum of the students from second year onwards.

Events that pertain to The Constitution-

Vigilance awareness week is celebrated in the institute complete with pledge taking ceremony which is the reaffirmation of Right Against Exploitation. The institute celebrates National Unity Day on 31st October as a general culmination of the Right To Freedom highlighting Equity among diversity. On 4th March every year, the institute celebrates National Road Safety Day. On 2nd October, the institute celebrates Gandhi Jayanti, the birth anniversary of the Father of the nation.

In addition, the organization celebrates events to promote the values of being a responsible citizen reflected in the Constitution of India.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	[View File](#)
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code | A. All of the above

of conduct for students, teachers, 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	View File
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	View File
Any other relevant information	View File

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

Narula Institute of Technology celebrates various national and international commemorative days, events and festivals every year. We believe that every student should know their own history, heritage and culture. The students of this institution are breaking the boundaries of religion and caste and moving towards the developed India. Some commemorative days are observed by the students to learn from remembering, other days have a symbolic status and students participate in discussions about their thoughts and ideas through lecture and activities planned for that day. Celebrating various important days in any way provides a platform for the students where they can safely reflect without fear of judgement, reprimand or ridicule. Thoughts of great Indian personalities were instilled in the minds of the youth through exhibitions and ceremonies organized in these days. The institution practices a pluralistic approach to the functions of all religions and encourages students and teachers to demonstrate the same. Every year our institute organizes national festivals and birth/death anniversaries of great Indian personalities. Staff members and students get to

know the importance of national integrity in the country in general and their role in it in particular.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	**No File Uploaded**
Any other relevant information	View File

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

The seamless platform independent online activity regarding innovative initiative taken by the institute is the 'Online Academic Resource Portal' by the respected faculties. In this practice, the faculties prepare the power point presentation according to the syllabus of the subjects to be taught in the coming semester. All important and recent information are covered in these lectures. These are recorded using different types of video recording mode and uploaded in the portal for future sharing to the students. Assignments, Quizzes, short tests could also be incorporated in the portal. The lectures are compact and very much helpful for the students to get the overview of the particular topics of the subjects before starting the class. It is also helpful for the examination preparation & doubt clearing process for the students.

File Description	Documents
Best practices in the Institutional website	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/7.2.1_Link%20Document.pdf
Any other relevant information	https://www.nit.ac.in/pdf/nit-naac/aqar_2021/7.2.1_Impact%20of%20Beyond%20Curriculum%20Training%20on%20Placement.pdf

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)

As per the guidelines of Government of India under the slogan 'Make in India', NiT is trying to promote Start-up India. Some major initiatives are establishment of IIC under MHRD, the Technology Business Incubator by MSME as a host institute. Besides this the institute is awarded 4 star rating in IIC academic calendar 2020-21 by MEIC, the maximum star rating for the academic year 2020-21 and in the top 10 institutes in Eastern India. The institute is also recognised in the band "Performer" under the category "Colleges (Private/Self Financed) (Technical)" in Atal ranking of Institutions on Innovation Achievement 2021, a flagship program of the Ministry of Education, Government of India.

The institute has joined the campaign on implementing National innovation and start-up policy under the aegis of the MEIC and adopted the policy framed by MIC. The institute has tied up with Ministry of Micro, Small & Medium Enterprises to offer assistance to the business incubator through host institution in public private partnership mode.

The organisation has set-up the Idea-O-Meter with the aim of connecting, encouraging, promoting and celebrating the best creative minds. Ideas from diverse fields like technology, software, film, music, art, games, fashion, photography, comics, crafts are considered.

File Description	Documents
Appropriate link in the institutional website	Nil
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

The plan of action for the next academic year are as follows:

- NAAC Accreditation with Grade A+
- Renewal for Autonomous Status
- NBA for eligible UG and PG Programs
- Implementation of Regulation 2021 Curriculum Adoption of 100% Existing Features of LMS by 100% Faculty and Staff Members Continuation of value-added courses (BCT- Beyond Curriculum Training))per semester at the beginning of each Semester
- Organization of workshop to make expertise faculty for writing COs, mapping of COs with POs & PSOs and calculation of attainment
- Conduction of IPR-related awareness Programme