YEARLY STATUS REPORT - 2020-2021

Part A
Data of the Institution

1.Name of the Institution	NAGPUR INSTITUTE OF TECHNOLOGY, NAGPUR
• Name of the Head of the institution	Dr. Amol Y. Deshmukh
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	09881711787
• Mobile No:	9764974144
• Registered e-mail	principal@nit.edu.in
• Alternate e-mail	registrar@nit.edu.in
• Address	Survey No. 13/2, Mahurzari, Near Fetari, Katol Road, Nagpur
• City/Town	Nagpur
• State/UT	Maharashtra
• Pin Code	441501
2.Institutional status	
• Type of Institution	Co-education
• Location	Rural
• Financial Status	Self-financing

• Name of the Affiliating University	**Rashtrasant Tukdoji Maharaj Nagpur University**
• Name of the IQAC Coordinator	**Prof. C. U. Padole**
• Phone No.	**9923203951**
• Alternate phone No.	**9764974144**
• Mobile	**9923203951**
• IQAC e-mail address	**iqaccell@nit.edu.in**
• Alternate e-mail address	**registrar @nit.edu.in**

3.Website address (Web link of the AQAR (Previous Academic Year)	http://www.nit.edu.in/Naac/IQAC/AQAR-2019-20.pdf
4.Whether Academic Calendar prepared during the year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	http://www.nit.edu.in/academic

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B**	**2.31**	**2019**	**15/07/2019**	**14/07/2024**

6.Date of Establishment of IQAC	**11/06/2018**

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nagpur Institute of Technology	**National Service Scheme**	**RTM Nagpur University**	**Year 2021 and 365 days**	**9200**

8.Whether composition of IQAC as per latest NAAC guidelines	**Yes**
• Upload latest notification of formation of IQAC	View File

9.No. of IQAC meetings held during the year	4	
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	Yes	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	View File	
10.Whether IQAC received funding from any of the 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)

Students were mentored to score in university examinations and results were improved.
Various departments and cells were motivated to organize activity such as Workshops, Guest Lectures, STTP and FDP.
Entrepreneurship awareness is carried out among the students.
Teaching staff were motivated for publication of research activity.
Students were guided for preparing quality projects, quality placements.

12.Plan of action chalked out by the IQAC in 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
Industry-Institute interactions to be strengthened.	Platinum Ranking in AICTE CII Survey of Best Industry Linked Institute-2020.
Effective teaching-learning process to achieve academic excellence.	1 Students from BE Second Semester secured 10 SGPA out of 10 in RTMNU S-2021 examination, 65 students are in the range of 9 to 10 SGPA. Two students from Computer Science and Engineering were in Merit list for RTMNU S-2020 examination.
Motivate all departments to organize Guest Lectures/Webinars, Workshops, STTP and FDP.	95 Guest Lectures/Webinars, 1 FDP, 1 STTP, 1 Workshop organized by various departments.
To conduct programs to make awareness about entrepreneurship.	7 Activities including workshop, Guest lectures and Awareness program organized by Entrepreneurship Development Cell.

13.Whether the AQAR was placed before statutory body?	Yes

- Name of the statutory body

Name	Date of meeting(s)
College Development Committee	11/12/2020

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2020-2021	03/02/2022

Extended Profile

1.Programme

1.1	5

Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	View File

2.Student

2.1 Number of students during the year	**1356**

File Description	Documents
Data Template	View File

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**128**

File Description	Documents
Data Template	View File

2.3 Number of outgoing/ final year students during the year	**366**

File Description	Documents
Data Template	View File

3.Academic

3.1 Number of full time teachers during the year	**95**

File Description	Documents
Data Template	View File

3.2 Number of Sanctioned posts during the year	**70**

File Description	Documents
Data Template	**View File**

4.Institution

4.1	**22**
Total number of Classrooms and Seminar halls	
4.2	**410.12816**
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	**230**
Total number of computers on campus for academic purposes	

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

The Institute ensures effective curriculum delivery through a planned and documented process. Nagpur Institute of Technology is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur. Institute follows curriculum, Academic Calendar provided by RTMNU. Curriculum is delivered by systematic implementation plan.

- **Action plan for implementation of curriculum is prepared by Dean (Academics).**
- **Dean (Academics) proposes Institute Academic Calendar in-line with University Academic Calendar.**
- **Teaching workload is prepared by HoD**
- **HoD issues subject choice form to faculty members to know their subject choices.**
- **Based on choices, the subjects are allotted to the faculty members.**
- **Accordingly, Time Table is prepared and notified to all faculty members.**
- **Faculty member prepares Teaching plan and HoD approves it**
- **Progress of students is evaluated through Continuous Internal Evaluation which comprises of Attendance, Class Test, Mid Semester Test, Objective Test, Assignments and Pre-University**

- sessional examination.
- CIE for Practical comprises of Attendance, Practical execution performance, Viva-voce, Practical journal submission.
- Class engagement and syllabus completion is monitored
- we arrange various activities like: guest lectures, workshops, seminars
- Students are encouraged to execute the practical through Virtual Laboratories.

- Review meetings are conducted to monitor the academic progress.

File Description	Documents
Upload relevant supporting document	[View File](#)
Link for Additional information	http://www.nit.edu.in/NAAC_AQAR_2020_2021/1.1.1%20Supporting_docs.pdf

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

The Institute ensures effective curriculum delivery through a well planned and documented process. Nagpur Institute of Technology, Nagpur is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur. Institute follows curriculum (Syllabus/Course and Examination Scheme) and Academic Calendar provided by RTMNU, Nagpur.

- Dean (Academics) proposes Institute Academic Calendar in-line with University Academic Calendar.
- Progress of students is evaluated through Continuous Internal Evaluation (CIE).
- CIE for Theory comprises of Attendance, Class Test (CT), Mid Semester Test (MST), Objective Test (OT), Assignments (Group) and Pre-University (PUT) sessional examination.
- CIE for Practical comprises of Attendance, Practical execution performance, Viva-voce, Practical journal submission.
- Students are encouraged to refer or utilize resources like book CDs, old question papers, final year project reports available in library, apart from huge amount of ONLINE e-books,tutorials,video Lectres,Ecertificate Course also, they are encouraged to refer online NPTEL videos.

- Review meetings of HoDs, Dean (Academics) and the Principal to

> **monitor the academic progress and to observe effective execution of the academic plan is conducted.**
> - **HoD's Conduct Monthly Meeting with Class Representatives to know more about subject related issues.**

File Description	Documents
Upload relevant supporting documents	View File
Link for Additional information	http://www.nit.edu.in/NAAC_AQAR_2020_2021/1.1.2%20Supporting_docs.pdf

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University	**A. All of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	**No File Uploaded**

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

5

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	**No File Uploaded**
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

5

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

1150

1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during the year

1150

File Description	Documents
Any additional information	View File
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

RTMNU offers one course that integrates issues related to either gender, or environment, human values , professional ethics courses

related with gender issues aimed at promoting gender equality and focus on women empowerment.

Issues related with environment is integrated into RTMNU's curricula. In UG programmes'Environmental Studies' has been added. Focus is on topics environment protection Act, disaster management, enforcement of environmental legislation, development of the mechanism to control of air , water , noise pollution and solid waste management.NIT is making the campus green by continuous plantations, using solar energy and so on.

All programmes demonstrate academic flexibility as they are based on Choice Based Credit System. Course 'Universal Human Values' is offered.

List of some courses…

Sr.No

Course Number

Course Name

Branch

Semester

1

BE3S4T

Ethics in IT

CSE

III

2

BE3S7T

Environmental Engineering

CSE

III

3

BECSE310T

Functional English

CSE

VI

4

BEIT306T

Environmental Engineering

IT

III

5

BEIT605T

Functional English

IT

VI

6

BEME406T

Environmental Studies

MECHNICAL

IV

7

BEELE406T

ENVIRONMENTAL STUDIES

ELECTRICAL

III

8

BECVE506P

Communicative English & Technical Writing

CIVIL

VI

9

BEME606T

Functional English

MECHNICAL

VI

File Description	Documents
Any additional information	View File
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

10

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	**No File Uploaded**
MoU's with relevant organizations for these courses, if any	**No File Uploaded**
Number of courses that include experiential learning through project work/field work/internship (Data Template)	View File

1.3.3 - Number of students undertaking project work/field work/ internships

656

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	**A. All of the above**

File Description	Documents
URL for stakeholder feedback report	**No File Uploaded**
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View File
Any additional information(Upload)	View File

1.4.2 - Feedback process of the Institution may be classified as follows	B. Feedback collected, analyzed and action has been taken

File Description	Documents
Upload any additional information	[View File](#)
URL for feedback report	[http://www.nit.edu.in/Naac/criterion_1/1.4.2 %20Action%20taken%20report.pdf](#)

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of sanctioned seats during the year

300

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	[View File](#)

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

128

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Induction Program- One week Induction Program named as "PRARAMBH" is arranged every year for the first year admitted students along with their parents before commencement of their regular classes. In this

Program, the information regarding facilities, faculty expertise, rules & regulations, discipline code of the college, teaching-learning methodology institutional practices, facilities, do's and don'ts etc are given to give awareness about the college. The students and parents are encouraged to express their problems and bring out other information during induction program.

Advanced learners: -

- Advanced learners are constantly encouraged to participate in various technical events to enhance their knowledge which provides additional inputs for better career planning and growth.

- Students are motivated to register for NPTEL, Udemy, Coursera, Alison online courses to satisfy their higher needs for knowledge.
- Special sessions and campus recruitment training are organized for them which help to prepare for competitive examinations like GATE examination.
- They are encouraged to organize and participate in Student forum Association, extra-curricular and co-curricular activities to develop managerial, problem solving abilities and leadership qualities.
- Felicitation of Class Toppers in college.

- Support for participation at Local, Regional and National level Research competitions, design competitions, project competitions, and sports events.

- Guidance on Entrepreneurship for students with entrepreneurial mindset

Slow Learners:

- Remedial Classes of difficult subjects are conducted for lateral entry students and for slow learners of different subjects to improve their results.
- Performance of these students in End Semester Examination is monitored to analyze their performance.

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

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
1356	**95**

File Description	Documents
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

- **Independent learning is encouraged through NPTEL videos and seminars and other digital sources.**
- **During the academics, Mini-Projects and final year projects are given to the students and they are guided by both faculty and Industry/Research personnel. Seminars helps in self-learning and improving their presentation skills.**
- **For increasing the practical knowledge Internship programs alliance with various industries as well as various training programs are arranged for the students.**
- **Guest lectures by eminent persons from Industries, government organizations, alumni are arranged. One or two day workshops and seminars are also arranged frequently.**
- **Industrial Tours and Visits are arranged through which students can observe and learn as to how theoretical concepts are put into action, thereby aiding their practical learning and Practical knowledge. The institute has ISTE student chapter for their participation and conduction of various workshops, seminars and technical activities.**
- **The institution has MoUs with industries and other institutes. This helps in improving the employability skills of the students.**
- **Group Discussions for students are conducted to improve the confidence level, oratory skills and knowledge of the student.**

Students have access to e-journals and e-books.
- **Internships are provided to them.**

The participative learning activities implemented by the faculty include:

- **Co-curricular & extra-curricular activities.**
- **NSS and NCC activities**

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

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

At NIT classrooms and labs are ICT enabled with projectors installed and the campus is enabled with high speed wifi connection. The faculty uses various ICT enabled tools to enhance the quality of teaching-learning .Various platforms like Zoom meeting, Google meet, Microsoft teams are used for conducting online lectures for students. Google classroom is also used to manage and post course related information- learning material, lab submissions and assignments, etc. Course syllabus is completed through Presentations which are animated and have audio, video, small clips. For smooth handwriting and mathematical equations Wacom Tabs are also used.

Practicals are conducted with virtual labs through simulations whichimproves the effectiveness of the teaching- learning process. The faculty members effectively utilize Audio Visual aids to demonstrate the concepts to the students using resources from National Program on Technology Enhanced Learning (NPTEL) to enhance the learning experience. Web and video courses (offline) of IIT, from NPTEL are accessible to faculties as well as for students.The research journals are available online and facility for accessing these journals is provided in the campus. Along with this other

`resource packages like Spoken tutorial and National Digital Library are also available for various video lectures.`

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	http://www.nit.edu.in/DVV_CLARIFICATION/2.3.2%20(Evidence)%20ICT%20Tools%20_link.xlsx

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

46

File Description	Documents
Upload, number of students enrolled and full time teachers on roll.	View File
Circulars pertaining to assigning mentors to mentees	View File
mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

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

95

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	**No File Uploaded**
List of the faculty members authenticated by the Head of HEI	**No File Uploaded**

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

10

File Description	Documents
Any additional information	**No File Uploaded**
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

6.9

File Description	Documents
Any additional information	**No File Uploaded**
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

The institution organizes orientation program in which students and faculty members are acquainted with the rules and regulations of the

affiliating university, examinations, internal exams, assignments, tutorial classes, technical activities, detailed information about evaluation process, extra-curricular activities etc. Students are clearly made aware of the eligibility conditions required to appear in the RTMNU Examination. The evaluation process is made known to the stakeholders and students during the orientation programme as they join the College. The schedule of all internal exams like MST are communicated in advance through college Academic calendar.

- Transparent and robust internal assessment

- The internal evaluation processes is discussed in Principals meeting with HoDs, academic coordinator and mutually consented strategy is fixed well in advance and its policies are circulated amongst the staff.

- Schemes of evaluation are informed to the students at the beginning of the session.

- The previous university examination question papers, question banks and model papers are made available to the students by the respective subject faculty and in the libraries so that they are aware of the paper pattern and marking scheme of university Papers

- Setting of question papers are done by respective subject faculties and are submitted to OIC Exam cell in sealed covers confidentially to ensure transparency in the system.

- Examination schedule of various internal exams like Mid sessional term (MST1 and MST2) of all departments is circulated and displayed by the Exam cell.

- The results of internal exams are conveyed to the students after conduction of exams which are also available with the respective subject faculty and HoDs.

File Description	Documents
Any additional information	[View File](#)
Link for additional information	Nil

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Institute resolves all internal examination and university related grievances in a transparent and time-bound fashion. Redressal of grievances is permitted by University for semester examinations and not for term work/oral/practical, project, and seminar examination. The mechanisms for Redressal of grievances with reference to evaluation is as follows-

- o **Institute level -**

- Students are made aware of the assessment methods at the beginning of the semester.

- The assessed answer sheets are circulated to students in class-room by the respective subject faculty along with the discussion of correct answers.

- Faculty discusses about Lacunae in performance with students to enable them to improve their learning and overcome the shortcomings.

- In case of any discrepancy, they are advised to bring the matter to the notice of concerned subject faculty and get it solved. The matter can always be discussed with mentor teacher, class-in-charge or HoD if remains unsolved at the subject faculty level. Hence, the process becomes very efficient. However, student can always approach to the Principal for his/her grievance and all authorities take an immediate action whenever required.

- As per R.T.M. Nagpur University directives, all internal marks are to be submitted on-line within a stipulated time frame. Thus, the process of sorting out grievance becomes time-bound.

- o **University level –**

- Paper setting, exam schedule declaration, conduction and

evaluation is done by RTMNU.

- In case of grievances related to form submission, issue of admission card or any other the matter is solved by the faculty in charge of university examination related matters, HoD and concerned clerk of the college.

- In case of grievances related to university question papers the same are communicated to university through the controller of examination within stipulated time.

- After declaration of results by the University, students can apply for either photo copy of answer sheets, which are provided by the University on payment of fees or directly for reassessment.

- Student having grievance after receiving photo copy of answer sheet, can apply for revaluation to the University.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

The importance of the learning outcomes, Program Education Objectives, Program Outcomes and Course Outcomes for all programs offered by the Institute are clearly stated, displayed on the website and communicated to the students and teachers.

- The PEOs have been categorized in to three sections such as Academic Values, Social Sensibilities and Moral and Spiritual Values. Integrating different stakeholders of the systems, the competencies and the performance Indicators for each of the Program Education Objectives are also defined and which in turn lead to design of comprehensive course level competencies and performance indicators. Programme Assessment Plan detailing the different Assessment types are also designed.
- Program outcomes are derived from the Program Education Objectives and are fine tuned to the specifics of each

program.

- The importance of the learning outcomes has been discussed and communicated to the teachers in staff meeting and IQAC meeting.
- All students are apprised of the objectives and expected outcomes of their programme on admission during the compulsory Orientation programs.
- Students are also educated and provided with the detailed syllabus and course outcomes in each course and the assessment strategy for each course.
- Demonstration of thorough conceptual understanding in the core areas of all the subjects with the support of mathematics.
- Necessity of use of software tools and coding to perform mathematical operations, statistical analysis and simulations in solving complex problems.
- Use of basic laboratory equipment correctly and effectively in order to conduct measurements, and analyze and interpret the results, including a quantitative understanding of uncertainties.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil
Upload COs for all courses (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

CO Attainment Procedure

1

Map CO's with the questions given in Internal exams (MST-1, MST-2), activities, assignment and questions of RTMNU exam of particular subject.

[6 CO's are mapped with the six units given in the syllabus, CO1 with unit-1, CO2 with unit-2, CO3 with unit-3, CO4 with unit-4, CO5 with unit-5, CO6 with unit-6, respectively]

2

Assign the marks of individual students achieved in each question

given in the internal exam, activities, and assignments.

3

Write the marks of each student achieved in RTMNU exam of that particular subject.

4

Absolute marks are calculated by taking 40 % of marks assigned to each question of particular internal exam.

5

Write total number of students appeared in the internal exam.

6

Write number of students scored above absolute marks.

7

Write percentage of students scored above absolute marks.

8

Find CO attainment for each question. CO attainment is calculated as follows

If percentage of students scored above absolute marks are between

40 to 50 assign 1, 50 to 60 assign 2, Above 60 assign 3.

(levels are graded as follows:- 1=low , 2= medium , 3= high).

Similarly calculate CO attainment of activity and assignment as stated above.

9

Internal CO attainment is calculated by taking the average of each CO achieved in every internal exams, activity and assignment. For e.g. Internal attainment for CO1 is the average of CO1 in MST1, MST2, activities & assignments.

Similarly calculate the Internal attainment for CO2, CO3, CO4, CO5 and CO6.

10

University CO attainment is the value of university attainment achieved in RTMNU exam of that particular subject as calculated in point 8.

11

Actual CO attainment is calculated by the formulae- (0.2 * Internal CO attainment and 0.8 * University CO attainment) as weightage of marks for - Internal exams = 20 and RTMNU exams = 80

12

Consolidated CO attainment is calculated by taking the average of all CO's (CO1, CO2, CO3, CO4, CO5, and CO6).

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

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

366

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	[View File]()
Upload any additional information	[View File]()
Paste link for the annual report	https://rtmnuresults.org/

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)

http://www.nit.edu.in/DVV_CLARIFICATION/Student%20Satisfaction%20Survey%20Form%20(Responses).xlsx

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

0

File Description	Documents
Any additional information	**No File Uploaded**
e-copies of the grant award letters for sponsored research projects /endowments	**No File Uploaded**
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.2.1 - Number of departments having Research projects funded by government and non-government agencies during the year

0

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	**No File Uploaded**
Supporting document from Funding Agency	**No File Uploaded**
Paste link to funding agency website	**Nil**

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

85

File Description	Documents
Report of the event	View File
Any additional information	**No File Uploaded**
List of workshops/seminars during last 5 years (Data Template)	View File

3.2 - Research Publications and Awards

3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year

3.2.1.1 - Number of research papers in the Journals notified on UGC website during the year

79

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.2.2 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year

24

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.3 - Extension Activities

3.3.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

The extension activities are planned and executed to provide practical exposure to the students regarding various social issues. The college organizes numerous activities under NSS, Student Rotaract Club and department forums to assimilate social responsibilities. NSS: Since the inception of Institute in the year 2008, NSS team has organized number of awareness programs related to the environment and social issues which includes: Blood donation camps. Tree plantation programmes. Swachh Bharat Abhiyan on the occasion of birth anniversary of Mahatma Gandhi. Traffic Control programmes for rural community."Shiv Jayanti" celebration Water conservation at village Umatha. Awareness programme "Say no to nylon Manja" on the occasion of Sankrant at Samvidhan Chowk. Door to door campaign in Mahurzari village to make people aware about the importance of cleanliness in their surrounding, cleaning Mahurzari Lake and Open Defecation Free (ODF) village/slum. Every department has forum under which number of activities have been organized. Many of the activities are jointly organized with NSS and Rotaract Club: "Nirmalya Ganesh Festival"- wherein the environment concerns are looked after. Active Participation in Gorewada Forest Festival Seminar on Human Rights, Indian Judiciary System and Constitution of India Honor and Commemoration of WAR heroes Celebration of Unity Day Constitution Day Celebration Celebration of Yoga day Educating the students regarding "Swachhata MoHUA" App Educating the students regarding time management Rainwater Harvesting & Watershed Development Visit to Jeevan Vikas Ashram "Upay Footpath Shala" event Rakshabandhan with the students of physically disabled students Health Checkup camps

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

3.3.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year

9

File Description	Documents
Any additional information	**No File Uploaded**
Number of awards for extension activities in last 5 year(Data Template)	[View File](#)
e-copy of the award letters	[View File](#)

3.3.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.3.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

8

File Description	Documents
Reports of the event organized	[View File](#)
Any additional information	**No File Uploaded**
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	[View File](#)

3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year

3.3.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

539

File Description	Documents
Report of the event	[View File](#)
Any additional information	**No File Uploaded**
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	[View File](#)

3.4 - Collaboration

3.4.1 - The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research etc during the year

38

File Description	Documents
e-copies of linkage related Document	View File
Details of linkages with institutions/industries for internship (Data Template)	View File
Any additional information	**No File Uploaded**

3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year

3.4.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. during the year

7

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	**No File Uploaded**
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

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 equipment etc.

The Institution has adequate facilities for teaching learning processes. The Institute has sufficient space and area as per norms of statutory bodies. As per AICTE norms, Land area required is 2.5 acres. The College is having an area of 40468.6 sq.m. (10 acres). The total built-up area is 10424.403 sq.mt. The state-of-the-art infrastructure facilitates a good teaching-learning environment. The infrastructure includes 19 classrooms, 05 tutorial rooms 35

laboratories, common workshop, central library, seminar hall, open stage, canteen facility and playground, sick room, T & P Cell, girls common room, boys common room. As per guidelines of Rashtrasant Tukadoji Maharaj Nagpur University, each laboratory is equipped with sufficient number of required experimental setups. The activities which require large gathering like placement talks, expert talks, awareness programs, interactions are arranged at state of art seminar hall equipped with audio visual systems. Every department has computer laboratory which is utilized for workshops, aptitude tests, project development and competitions. 20 ICT Class rooms and 1 ICT enabled seminar hall is available in the Institute. The campus is WiFi enabled with 358 computers in LAN connection. Every department has adequate equipments and computing facilities which are utilized by students and faculty members.

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, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

The Institute is having dedicated and experienced faculty for executing sports activities with the

designation of "Director - Physical Education". He looks after all in-house and outside sports activities pertaining to International, National and State level events. The college has playground with sports facilities like basketball, volleyball, football, Cricket, tug of war, athletics etc. Apart from outdoor games Institute has made a provision of indoor games such as table tennis, carom, chess, badminton, etc. Every year Institute promotes students to participate in various sports events conducted by University and other organizations. The Institute conducts Annual Sports meet under the banner of "UDAAN". Every year Institute conducts mega cultural activities in the name of "Pratibimb", wherein various cultural activities like dance, singing competition, student personality show, quiz, debate competitions, Antakshari, etc. are organized. The cultural activities are conducted at Seminar hall and open space. The activities of Yoga are arranged regularly for students and faculty members. Students have won prizes and medals at National level Yoga competitions. The Institute celebrates cultural festivals like Dahihandi, Ganesh festival, Vishwakarma Puja, Diwali Milan,

Holi, etc.

File Description	Documents
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 such as smart class, LMS, etc.

25

4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

25

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

0.69565

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

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

Library has total area of 411.115 sq.m. with reading room having seating capacity of 150 students. Library remains open on all working days between 9.30 am to 5.00 pm. Library provides open access facility to students and faculty. Library users can move freely in stack and can select the required books of their choice for issuing and reading in the reading room. The library staff assists students for tracing the required books from the stack. Most of the news papers and magzines are also available for students and faculty. Library is having Web OPAC facility where students can know the information about available resources. It is registred as a member of National Digital Library. It also has reprography facility. Book bank facility

is extended to backward category students.

Library is using automated Synchronic Sack Info software since inception of Institute.

Name of the ILMS software: Sack Info 2.5

Sack Info 2.5 is a local area network (LAN) based software

Nature of Automation:

The Sack Info 2.5 is having facility of Acquisition, Catalogue, Circulation, OPAC and Serial Control modules.

Version:

Sack Info 2.5 version.

Year of Automation:

Session 2008-2009.

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

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources	A. Any 4 or more of the above

File Description	Documents
Upload any additional information	View File
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

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

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

0.13570

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	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 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

2

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

Institute has state of the art IT infrastructure facility in campus. Institute has 3 Servers which are used to host cyber activities of the Institute. Institute is having 358 Computers connected in LAN which are used by students and staff. Classrooms and seminar halls are equipped with LCD Projectors (14) and WiFi/LAN connectivity. Separate Audio Visual Hall with internet connectivity is available for webinars and live video lectures. Institute has 50 MBPS bandwidth lease line with ratio 1:1. It is planned to upgrade the bandwidth of WiFi. Institute regularly updates and upgrades IT infrastructure time-to-time as per requirement. Every year, budgetary provision is made for up-gradation. Institute has partially upgraded LAN speed from 100MBPS to 1GBPS by deploying new GBPS Ethernet switches. Reliance Jio infratech Wi-Fi is also installed for staff and students.

The following are the strategies for deploying and updating IT infrastructure and associated facilities:

Procurement of upgraded Computers and accessories.

• Procurement of Advanced Software as per the requirements.

• ICT- Classroom facility is available for adopting modern teaching learning process.

• All the systems are LAN connected.

• 12 CCTV's are installed to monitor all the events and happening in the Institute.

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

4.3.2 - Number of Computers

230

File Description	Documents
Upload any additional information	No File Uploaded
Student – computer ratio	[View File](#)

4.3.3 - Bandwidth of internet connection in the Institution	A. ? 50MBPS

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

4.4 - Maintenance of Campus Infrastructure

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

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

29.07327

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts.	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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

The Institute has internal committee for maintenance and repair of infrastructure, and external agency equipment and other support facilities. Institute management appoints staff for cleaning of campus, laboratories, library, sports complex, computers, classrooms and other Physical infrastructure. Each department has lab-in-charge who informs verbally or in writing to the concern in-charge for maintenance of electrical, civil and computer work.

The computer and peripheral maintenance work is done by internal computer maintenance staff. AMC contract is given to external agency for the maintenance of all UPS within the Institute. System administration team is available for maintenance of Internet connectivity, CCTV security system and network connectivity.

Electrical maintenance: Each department is having one member to coordinate electrical maintenance work and give there requirement to the in-charge. The Institute is having 11KV substation, which is also maintained by maintenance department. In case of any repair requirement, service is also hired from outside agencies.

The Civil renovation work and maintenance work of entire Institute is supervised by Building work Cell. Library utilization and maintenance: Librarian calls quotation from different vendor to purchase books/magazines/journals and submit to purchase committee for necessary action after principal approval. Utilization maintenance Sports Complex, Classrooms etc.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	**Nil**

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1285

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<u>View File</u>
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<u>View File</u>

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the

institution / non- government agencies during the year

0

File Description	Documents
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to institutional website	http://www.nit.edu.in/DVV_CLARIFICATION/criteria%205-2022/5.1.3_Proofs_Capacity%20&%20Skill.pdf
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

1132

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

1132

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 has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	**No File Uploaded**
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

91

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

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

15

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	**No File Uploaded**
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

03

File Description	Documents
Upload supporting data for the same	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/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

0

File Description	Documents
e-copies of award letters and certificates	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of awards/medals for outstanding performance in sports/cultural activities at univer sity/state/national/international level (During the year) (Data Template)	[View File](#)

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

The Student Representative Council (SRC)

Nagpur Institute of Technology, Nagpur, Every Year organizes ''PRATIBIMB" (Annual Social Gathering) and UDDAN (Annual sports meet), "SANKALP'' (Ganesh Festival), ''ANVESHAN'' (National level project competition). All these programs are organized by Students Representative Councils (SRC) committee members.

Objective of Students Representative Councils (SRC):-

- **To provide a platform for students to support, share and excel in potential qualities.**
- **To promote the views of students and to encourage students to become actively involved.**
- **To provide actively participation and leadership opportunities.**

The Institute Students Representative Councils constitutes are:-

- **One student from each year per department**

- **One outstanding student each from NCC,NSS, Sport & Cultural**
- **Two girls students**

The department wise student's councils are:

- **FAME (Federation of Active Mechanical Engineers)**
- **CESA (Civil Engineering Students Association)**

- **Feeder-(Federation of Electrical Engineering Departmental Enthusiastic Role Model)**
- **StACS (Computer Science Engineering)**
- **ITSA- (Information Technology Students Association)**
- **ELECTROX (ETC Students Association)**

Students represent various administrative committees:

Library Committee, Hostel Committee, Canteen Committee, College Magazine Committee, Sports Secretary, Gathering Secretary, Rotract Club, National Service Scheme, Student special Interest groups

File Description	Documents
Paste link for additional information	http://www.nit.edu.in/DVV_CLARIFICATION/5.3.2_Committee_SRC.pdf
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

09

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Introduction of Alumni cell

Alumni cell of the Nagpur Institute of Technology is devoted to its work to establish a good relation with the passed out students. The cell is able to help out the alumni for their alumna matters. The alumni cell of the Nagpur Institute of Technology, Nagpur is working with the following aim's and objectives.

- To bring together the ex-students of Nagpur Institute of Technology, Servey No. 13/2, Mahurzari, Near Fetry, Katol Road, Nagpur and to promote fellowship amongst them and their families.

- To disseminate knowledge and know-how for the mutual benefit of the Members as also for the benefit of the College.
- To undertake Intellectual, Academic and Cultural Activities Sports and Games Entertainment Programmes
- Improvements to existing infrastructure of the College and social service etc. for the benefit of the Members as also of the College and for the society at large.
- To provide a forum to establish a link between the alumni, staff and students of the Institute.
- To enable the alumni to participate in activities that would contribute to the general development of the Institute and the Society.
- To help the alumni with their technical and relocation problems.
- To try to find employment opportunities to students and fellow Alumni members in need.
- To institute prizes and scholarships, and render financial aid to needy and deserving students of the Institute.
- To support academic activities like conferences, workshops, technical symposiums (including travel and registration support to students and the staff).
- To contribute towards the welfare of the alumni.
- To keep the alumni abreast of scientific and technological developments of national and global importance.
- To give scholarships to meritorious students.
- To give awards to toppers of all branches of engineering.
- To promote Entrepreneurship & Innovation among the students.
- To help Institute for effective liaison to Industry.
- To encourage the formation of chapters to increase participation of Alumni.
- To undertake activities of nation building including those of charitable nature.
- To exchange professional knowledge, organize technical conferences, seminars workshops & training courses.

- **To provide educational & medical assistance to the poor and weaker section of the society.**
- **To establish, run, support to primary and secondary schools, colleges, libraries, reading rooms, research and other institutions of the like nature in India, for use of the students and the staff and also for the development and advancement of education and diffusion of knowledge amongst the public in general.**
- **To undertake social causes, preferably at least one every year.**

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

5.4.2 - Alumni contribution during the year (INR in Lakhs)	**E. <1Lakhs**

File Description	Documents
Upload any additional information	**No File Uploaded**

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Vision:

Service to Society by creating Technical and Skilled manpower through Value based Technical Education

Mission:

To provide quality technical education to meet the requirements of industries and society.

To equip students with need based technical skills through continual improvements in Teaching Learning processes and research activities.

To inculcate ethical values for overall holistic development of students.

Nature of governance: The Governance of the Institution comprises the Involvement of College Development Committee, Department HoDs and Internal Quality Assurance Cell {IQAC} in shaping the Institution for Vertical Growth amongst its Stakeholders. The Institution believes in effective governance by decentralizing responsibilities of the Institution into a well planned Cellular structure for overall participation, management and execution of the reforms and powers through strategic policies.

The Principal, being the highest authority of the Institute, is assisted by Deans, HoDs and Cell Co- ordinators. The Dean and Cell Co-ordinators are involved in decision making process of the yearly plan and also responsible to execute activities related under their domain areas.

In conversant to Vision and Mission, the Institute has a Structured Perspective/Strategic Plan in order to prioritize the implementation of the need based goals from time to time.

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

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The institution practices decentralization and participative management Response:

The Institution practices a decentralized governance system with properly administered inter-relationships. Various cells/bodies/committees are constituted which involve staff {teaching /non teaching/support} and students to manage various institutional activities. Committees/Cells are formed for information dissemination, management and execution of the various curricular, co-curricular and extracurricular activities to be conducted/participated by the Stakeholders during the academic year.

The departments provide a platform to all its stakeholders by arranging various activities with the support of Management for the benefit of Students and Faculty. Institute is keen on the teachers' involvement and participation for improvement of effectiveness and efficiency of the institutional teaching learning process and adopting various methods for up gradation in them. The Institute has always been in favor of participative management and welcomes the suggestions put forth by the teachers in the meetings in the forum of HoDs, Principal or CDC. Management ensures that the opinions and suggestions made by faculty and staff are included in the decisions implemented for college development. This process probes to the institutional practices for decentralization and participative management.

This governance is practiced in all the activities wherein there is participation of faculty members, students, non-teaching and support staff.

Case Study: Institute has cellular structure for the good governance. Twenty two cells are constituted for the overall development of Institute where every faculty and students are involved. HoDs are also equally participating in decision making. Institute addresses all the issues concern with the stakeholders through these cells. Various Deans, namely, Dean (Academics), Dean (Student Welfare/SRC), Dean (III Cell), Dean (R & D) and Dean(Administration) are taking care of different cells. Certain groups of cells are working under Deans. Every cell has one faculty coordinator along with a member from every department and two student coordinators are associated with every cell. In total, the complete process is decentralized and participative. At the start of session training needs are identified by the concerned HoDs and submitted to the Training Cell and accordingly, the required training programmes are arranged. After analyzing the performance of the students, the concerned faculty in-charges identify the prominent learners to whom the motivation is provided to enhance the skills for particular domain. This has created a good learning environment and it is quite evident from the student's achievements. Many students performed well in sports and cultural activities. In addition to above, Cellular structure provides the liberty to work in decentralized and participative manner.

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

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The Strategic/Perspective plan is prepared with the key indicators and the practices like:

Vision and Mission of the Institute

Quality policy of the Institute

Short Term and Long Term Goals

Expertise of the stakeholders

Global Trends in Higher and Technical Education

Rapidly changing Stakeholder needs

Brainstorming with stakeholders Analysis of Local scenario

The related planning & deployment documents are available with the Institute.

Strategic/Perspective Plan of the Institute:

2020-21:

Research Centre

Centre of Excellence

NSDC Center

MKCL Training Center

Incubation Center

2021-22:

Student and Faculty Exchange Research

Grants from GOI

International University Collaboration

Alumni Chapter

ARIIA Ranking

2022-23:

More Consultancy Assignments

Auditorium

Accreditation by NBA

Organization of International Conference

Alumni association

2023-24:

Autonomy Status

Sponsored Laboratories from Industry

Residential Campus

NABL Certification

Alumni Local Chapters at other cities

2024-25:

NIRF Ranking

Certifications from organizations of repute like ISO, SIRO

Publishing NIT International Journal

Collaborations with International Universities

File Description	Documents
Strategic Plan and deployment documents on the website	[View File](#)
Paste link for additional information	http://www.nit.edu.in/DVV_CLARIFICATION/6.2.1%20Strategic%20plan%20deployed%20on%20institutional%20website%20(1).pdf
Upload any additional information	**No File Uploaded**

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

Nagpur Institute of Technology has a meticulous organizational structure to plan, manage and execute various functioning of administrative and academic processes. Various bodies/cells and committees are formulated that constitutes the organization structure. There is involvement of Management representatives, external experts, in-house entities in the Organization structure. The Institute has a College Development Committee (CDC) which comprises of Representative(s) of Management, Principal and Members from Teaching, Non-Teaching, Support Staff and Students. The CDClooks after the various activities to be conducted during the academic year and suggests for improvements and upgradation of the Academic and Administrative processes, infrastructure requirements if any. The Principal is empowered to take care of the Strategic/Perspective Plan of the Institute and is involved in its implementation, efficient functioning and monitoring through discharge of powers from various bodies/cells/committees formed for smooth functioning. The Institute has also formed an active Internal Qualitative Assurance Cell to ensure the quality deliverance in the academic and administrative processes.

Service rules are in existence for all the teaching, non-teaching staff and students. The roles and responsibilities are clearly mentioned in the Service rules. It is updated from time to time.

Recruitment procedure is very transparent and is based on merit. The rules and directions of statutory bodies are followed while executing recruitment procedure.

The Promotional policies are transparent and are well known to the faculty members. It is based on Performance based Appraisal System. Due recognition is given to all the concerned.

The functions of various bodies/cells are well formulated and are scrupulously observed.

The College Development Committee prepares an overall comprehensive development plan of the college regarding academic, administrative and infrastructural growth, and enables college to foster excellence in curricular, co-curricular and extra -curricular activities. It decides about the overall teaching programmes, recommend to the management about introducing new programmes and the creation of additional teaching and administrative posts. It takes review of the self-financing courses in the college and makes recommendations for their improvement.

Grievance redressal committee upholds the dignity of the college by ensuring strife free atmosphere through promotion of cordial relationships amongst stakeholders. It provides responsive, accountable and easily accessible machinery for settlement of grievances and to take measures in the college undertakings to ensure expeditious settlement of grievances in order to maintain a harmonious educational atmosphere in the institute.

IQAC aims at development and application of quality benchmarks/parameters for various academic and administrative activities of the institution. It facilitates the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process. It makes proper arrangements for feedback response from students, parents and other stakeholders on quality-related institutional processes. It ensures the dissemination of information on various quality parameters.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the Institution webpage	http://www.nit.edu.in/DVV_CLARIFICATION/6.2.2%20Organogram.pdf
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user interfaces	View File
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

The Institute is executing welfare measures for Teaching and Non-teaching staff members.

- The institute is depositing Provident Fund of the staff members.
- The salary advances are given to faculty and non teaching staff who require it for due reasons Teaching and non teaching staffs are given Paid leaves.
- The eligible staff members are given promotions.
- There is financial assistance for attending trainings/ workshops/seminars. There is provision for emergency finance facility for medical reasons. Bus facility is extended to staff members.
- The teaching and non teaching staff members are given Summer Vacation, Medical Leaves, Duty Leaves (Paid Leaves).
- Appreciation certificates for excellence in duties and responsibilities are given to the respective staff members.

Teaching staff members are sent for Deputation towards higher studies.

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

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

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

0

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 programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

07

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

33

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Quality teaching is indispensable for improving student outcomes and achievements. Institute has well designed Performance Appraisal system. It is implemented with the help of Performance Based Appraisal System (PBAS) which evaluates overall performance. Performance is self assessed and duly filled in PBAS by Faculty and Staff at the end of every semester. PBAS of faculty is filled by Head of Department, and PBAS from various Cell coordinator is collected. PBAS are then evaluated by respective HODs/Cell Coordinators and Principal. PBAS system inspires Faculty members to boost professional knowledge and academic growth. It is mandatory for every Faculty member and Staff to submit the performance appraisal for every semester. The performance appraisal system for teaching staff is evaluated on following parameters:

I.

- **Teaching, learning and evaluation related performance**
- **Lectures, Seminars, Tutorials, Practical's, Contact Hours**
- **Reading / Instructional material consulted and additional knowledge resources provided to students.**
- **Use of Participatory and Innovative Teaching-Learning Methodologies, Updating of Subject Content, Course Improvement**

etc.

- Examination related work and duties

II. Co-curricular, extension and professional development related activities (Extension/co-curricular, Professional Development related Activities and Contribution to Management of Institution)

III:

- Research, publications and academic contributions Papers published
- Papers reviewed
- Books/Book chapters published
- Research projects/consultancies undertaken Research guidance
- Training courses/FDPs Invited guest lectures Chairmanships

For non-teaching staff following are the details of appraisal:

- Qualifications
- Inter personal behavior
- Extra efforts undertaken for betterment of Institute Responsibilities handled (Departmental and Centralized) Leaves

The PBAS helps to provide positive feedback as well as identifying areas for improvement. It helps for skill upgradation and motivates for further improvements with merit-based compensation system.

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

Before the start of the academic year, Institute earmarks financial activities for the departments and centralized cells. During the year, Accounts Officer carries out scrutiny of finances of conducted activities and checks the financial provisions. At the end of the year it is audited by an external Chartered Accountant.

Budget for every event/activity is prepared by activity incharge and

it is approved by Principal well in advance.

Institute budget includes Recurring and non recurring expenses, budget includes details of Capital goods, furniture and fixtures, salary, operation and maintenance and other finance heads.

The financial reimbursement procedure is easy and simple. At the end of the financial year balance sheet is prepared and is approved by management.

The Books of accounts are as per the statutory requirements. The auditor ensures that all payments are duly authorized.

Internal financial audit used to carry out every month by S. M. Nimodia & Co., FR No. 126416W, M No. 119955.

External financial audit executes once in a year by Ratan Chandak & Co., FR No. 108696W, M.No. 42711.

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

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

0

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Institution has well planned strategies in concern of mobilization of funds and the optimal utilization of resources.

The Purchase Committee looks after the aspects related to this. It collects and compiles list of equipments, computers, and other items required throughout the year. It executes the purchase procedure and other operations like inviting quotations, comparatives. It analyzes quotations submitted by the suppliers/ service providers and provides recommendations to authority for approval and seek clarification from the suppliers/service providers wherever necessary. It facilitates in administering procurement process so as to maintain uninterrupted flow of materials/ services to support the academic & development activities in the institute as per it's plan/schedule.

After the approval of management the necessary procurement is done. It maintains credibility and transparency in all transactions.

It develops and maintains good relationships with suppliers/ service providers so as to get timely service with optimum costs.

Being self financed the revenue generation is based on student's fees collection. Budgetary provisions are made for various expenditure heads on the basis of priority by taking into consideration the accrued revenue available i.e. repayment of loan, salary expenditure, books and equipment, recurring expenditure etc. Provision of funds is made through bank loan in case funds accumulated through students' feesare found to be insufficient for budgetary provision. Exigencies and urgent requirements of funds are duly addressed.

Various off-line & online examinations are conducted to address mobilization of funds.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Initially, the Teaching-learning process was monitored and governed by the Academic Monitoring Committee (AMC). AMC was centralized (Institute level) committee responsible for regulating and implementing different academic activities. It was meant for smooth & uniform conduct of academics throughout the institute.

AMC was headed by Dean Academics and Academic Coordinator along with department coordinators were the members.

Internal Quality Assurance Cell (IQAC) is constituted from academic year 2018-19. IQAC was established on 11th June 2018 under the Chairmanship of Principal of the Institute. IQAC is established to integrate various academic activities, enhance supportive administrative tasks and effectively communicate to achieve quick actions and get impact on quality objectives of the Institute. It has contributed significantly for institutionalizing the quality assurance strategies and processes framed. The quality policies are institutionalized by the IQAC.

Followings are the objectives of IQAC:

- To develop a system for conscious, consistent and catalytic improvement in the overall performance of the Institute.
- To promote measures for institutional functioning towards quality enhancement. Institutionalization of best and innovative practices through internalization of quality culture. To channelize the efforts and measures of the Institute towards academic excellence.

  The roles of IQAC are as follows:

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks;
- The relevance and quality of academic and research programmes;
- Equitable access to and affordability of academic programmes for various sections of society; Optimization and integration of modern methods of teaching and learning;
- The credibility of evaluation procedures;
- Ensuring the adequacy, maintenance and proper allocation of support structure and services; The responsibilities of IQAC are as follows:
- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution;
- Facilitating the creation of a learner-centric environment

conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process;

- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes;
- Dissemination of information on various quality parameters of higher education;
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles;
- Documentation of the various programmes /activities leading to quality improvement;
- Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;
- Development and maintenance of institutional database through MIS (SACK INFO) for the purpose of maintaining/enhancing the institutional quality; Development of Quality Culture in the institution;
- Preparation of the Annual Quality Assurance Report (AQAR) and subsequent submission to NAAC.
- For instance, IQAC / AMC has played active role in enhancement of Academic activities wherein rigorous planning, monitoring and remedial actions of academic processes has resulted in 98.51% result in the B.E. Second Semester Summer-2021 examination. Also 01 student secured University topper rank. 65 students are in the range of 9 to 10 SGPA. Also due to the enhanced Industry Institute Interaction activities, Institute got Platinum ranking in the AICTE-CII survey of 2020.

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

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

Institute has best academic practices for student's development. Office of Dean Academics take cognizance of academic practices performed at Institute. Before starting of every semester, Academic Calendar is prepared well in advance. Teaching plan is designed by respective faculty members. Regular lectures, practicals and other

academic activities are performed as per the calendar. Monthly review of the same for all subjects is taken by Head of Departments and summary report is generated. Internal assessment of students is recorded using criterion viz.; Class test performance, assignments, field projects, laboratory projects and performances, involvement in co-curricular and extracurricular activities, research, participation in seminars/ conferences / workshops/ guest and expert lectures, active participation in training sessions, leadership qualities and mid semester and pre-university examination. Teacher-guardian counsels the mentees. The inputs from subject teachers help to identify the fast and slow learners. The Remedial classes are arranged for slow learners and their performance and improvement is monitored by subject faculty. At the end of the semester department class coordinator generate and submit the consolidated report of slow learners and performance after remedial classes to Head of the Department. The review is taken on regular basis for the effectiveness of teaching-learning process. The institutional reviews and implementation of teaching learning reforms facilitated by the IQAC are based on the following examples:

1. Conduction of Academics:

There are various activities involved to carry out smooth conduction of academics,

- Time Table coordinator prepares class timetable, remedial coaching time table. Daily Attendance is compiled.
- Two Mid Session Tests and Class tests are conducted.
- Smooth conduction of Pre-University and University exams. Parent Teacher Meets are regularly conducted.
- Feedback is sought two times a session.
- Guest lecture /Expert lectures are conducted in departments

  Incremental Improvements:

  University results:

  1) University results were improved. 1 Students secured 10 SGPA out of 10 in BE Second Semester RTMNU S-2021 examination, 98.51% results overall, 65 students are in the range of 9 to 10 SGPA.

  2) Two students from Computer Science and Engineering were in Merit list for RTMNU S-2020 examination.

  ArchanaShrivastav -6th Merit

SonaliMeshram -8th Merit

Increased Publications:

There is significant rise in quality publications in the recent times. The Book publications are also increased.

Enhanced I.I.I. activities:

There is significant rise in the I.I.I. activities. There is more involvement of industry persons in the Institute activities. Institute got Platinum ranking in the AICTE-CII survey of 2020.

MSME- Business Incubator (BI)

Institute have now been "approved by MSME" and got "Recognition as Host Institute (HI)/ to setup/ establish Business Incubator (BI)" for "Support for Entrepreneurial and Managerial Development of MSMEs through Incubator".

NSDC Center: Institute authorised as Training Centerof National Skill Development Corporation (NSDC) with Gramin Skill Development Mission as Training partner.

MKCL Center: Institute is authorized center for MKCL-KLiC courses.

- Center for Online Competitive Examinations:

  Institute has conducted various Online and Offline examinations of Government and private sectors

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

| 6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); | B. Any 3 of the above |

Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)	

File Description	Documents
Paste web link of Annual reports of Institution	http://www.nit.edu.in/ANNUAL%20REPORTS%202020-21.pdf
Upload e-copies of the accreditations and certifications	**No File Uploaded**
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	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

Nagpur institute of Technology, Nagpur Institution shows gender sensitivity in providing facilities such as a)Safety and Security b) Counseling c) Common Room

NIT has a strong ethical work culture that is based on inclusivity. It observes highest ethical standards in all its activities. Equal opportunities are provided to all individuals irrespective of gender, race, caste, color, creed, language, religion, political or other opinion, national or social, origin, property, birth or other status.

(a)Safety and Security

• Awareness campaigns on women safety and gender sensitivity through street plays (Nukkad Natak), rallies and camps by NSS and NCC student volunteers.

• Well-trained and vigilant women security guards stationed across the campus

- Security checkpoints at all campus entries and exits.

- Rotational duty by all faculty members for discipline and security.

- Night Patrols by local community including students and teachers.

- Strict implementation of Anti-Ragging, Anti-Smoking .

- Hostels for women with dedicated wardens.

- Complaint boxes where the students can drop in a note regarding any harassment faced

by them in premises or on the way to institute.

- Extensive surveillance network with 24x7 monitored control rooms.

(b) Counseling

- Formal and informal avenues for counseling male and female students and staff for

academic and other issues/problems.

- Class and Proctorial Committees are available for counseling of both males and females'

- Grievance Redressal Committees for staff and students

- Gender sensitization progeamme conducted in college campus that include the following aspects:

- Human rights

- Child rights

- Gender justice

- Gender equality

- Gender sensitization workshops

- Specific courses dedicated to gender issues.

- Campaigns against female feticide.

- Business Advisory Clinic provides free counseling to various MSMEs.

- Faculty Placement Cells and Alumni Placement Assistance Cell

(c) Common Rooms:

- In most of the Departments, common rooms have been allocated for men and women, which also facilitate meetings and discussions.

(d) Other Measures.

Encourage students to work together in regular field work under faculty supervision.

Community outreach

The Life-Long Learning Education (LLLE) programme provides opportunity to women from all

walks of life to get trained in entrepreneurship and self-employable skills.

As part of NSS activities, free multi-specialty medical camps and speech are organized fortnightly in

college , which help transform in building awareness about health,hygiene, importance of child education and provide a launching pad to induct them into vocational skilling.

File Description	Documents
Annual gender sensitization action plan	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	http://www.nit.edu.in/NAAC_AQAR_2020_2021/7.1.1.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy	C. Any 2 of the above

Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment	

File Description	Documents
Geo tagged Photographs	**No File Uploaded**
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 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Waste Management

1. **Solid Waste Management: -** The solid waste in the campus generated from various potential sources, such as Academic Buildings, Hostels, Canteen, Garden, etc. is managed by cleaning staff assigned to different locations in the campus. There are 23 workers for the waste management in the campus. Dustbins are placed at different locations in the campus. Some dustbins are placed in the class rooms and laboratories. Dustbins are also placed in front of cafeteria and in the corridors. The waste is collected in hand carts and transported to the disposal sites. Plant leaves and other garden waste are used for preparing compost. Newspapers are sold to local vendors. Plastic wastes are segregated and sent to municipal corporation
2. **Liquid Waste Management: -** The waste water from the various departments is collected by a network of underground and open drains and disposed into a nallah adjacent to premises. Waste water from water closets is collected into septic tanks provided separately for various buildings.
3. **E-Waste Management: -** Some of the e -waste generated is used for technical education purpose by making use of hardware in laboratories for display and study. Some of the components are being used for demonstration purposes. electronic goods are put to optimum use. The electronic components such as old invalid projects of final year students as well as damaged or old electronic circuits, models are reused for making the new electronic devices/projects by the students. department allows the students to reuse those components .damaged computers are sold to scrap vendor. UPS Batteries are exchanged with the suppliers. Obsolete computers are buy-backed with new ones. Computer machines purchased before five years are sold to the

different vendors.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	**No File Uploaded**
Geo tagged photographs of the facilities	**Nil**
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

B. Any 3 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	**No File Uploaded**
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 with trees and plants**

A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	**No File Uploaded**
Any other relevant documents	View File

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

7.1.6.1 - The institutional environment and energy initiatives 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	E. None of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading	B. Any 3 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	No File Uploaded
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the 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 socioeconomic and other

diversities (within 200 words).

The institution has been taking several efforts and initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. By celebrating many National and International Days, Events and Festivals the institution aims at bringing tolerance and harmony among the students and staff and other stakeholders.

The diversity in India is unique. Being a large country with large population. India presents endless varieties of physical features and cultural patterns. Our college organizes Online Cultural Event Under Udbodhan2020 on the Occasion of Ganesh Festival Sankalp-2020.In this event various events are organized like singing, dancing, fashion show and many more. In this competition students wore the different attire representing the different states, religions and cultures. Through this activity students get acquainted with the different culture of our nation and help to develop the tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. This also creates the inclusive environment in the college and society.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	**No File Uploaded**
Any other relevant information	View File

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

By celebrating many National and International Days, Events and Festivals the institution aims at inculcating values, rights, duties and responsibilities of citizens including yoga day, Rashtriya Ekta Diwas, Say No To Nylon Manza, 71th Constitution Day, Yuvak Diwas, Republic day, Pulse Polio Vaccination Campaign and many more etc..

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	**No File Uploaded**
Any other relevant information	View File

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic 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 4. Annual awareness programmes on Code of Conduct are organized	C. Any 2 of the above

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 programs etc., in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

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

The college believes in celebrating events and festivals in college. It is an integral part of learning and building a strong cultural belief in a student. The College makes tremendous efforts in celebrating the national and international days, events and festivals throughout the year.

In academic year 2020-21, we celebrated the following days like World Environment Day, International Yoga Day, National Mathematics Day, Independence Day, Republic Day, National Unity Day (Birth Anniversary of Sardar Vallabh bhai Patel), Birth Anniversaries of Dr. Sarvapalli Radhakhishnan, Mahatma Gandhi, Birth anniversary of Swami Vivekananda, Rashtrasaint Tukadoji Maharaj and saint Gadgebaba.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

BEST PRACTICE I

Campus Recruitment Training (CRT):

CRT program is exclusively designed for the students in order to make them ready for placements. It is focused on ensuring that the students are well equipped to get through the recruitment process of various IT and Core companies by gathering the inputs from the job-seekers and placement-providers. This program is implemented through an external renowned agencies which have expertise and credentials in grooming the students. These agencies hail across the state and nation.

The program has different modules for aptitude test, group discussions, reasoning and personal interviews.

1. Title

Empowering students with Campus Recruitment Training.

2. Goal

a) To enhance employability skills.

b) To assist students in cracking the aptitude tests.

c) To provide grooming environment through personalized coaching and group activities.

d) To enhance overall personality.

3. The Context

While there are always job-specific skills that an employer is looking for, most recruiters also want to have some general skills. These general job skills also count for "employability skills" or "soft skills". Employability training identifies the student's employability skills, combines them with improved self-awareness, and prepares them for getting placement. In view of this the Institute has emphasized on grooming the students which is complemented by the outcomes.

1. The Practice

Following practices are carried out under CRT module:

- Tips on Aptitude Test Preparations & Cracking
    - Practising & Discussion
    - Various areas/sections related to Aptitude Test
- Aptitude Test Practice
    - Script on Self- Introduction, Practising of the script.
    - Creative and innovative techniques of self introduction and practise to introduce within 30 secs and to include only relevant points. One to one feedback is given immediately after the performance.
- CV Making Workshop
    - Workshop mode - Students prepare the resume and immediate correction and suggestions are provided.
    - Guiding the students to prepare the CV addressing to specific needs of the different fields and use of technical terminologies accordingly.
- Communication & Interpersonal Skills
    - Script on Self- Introduction, Practising of the script, Competition on Self- Introduction.
    - Creative and innovative techniques of self introduction and practise to introduce within 30 secs and to include only relevant points.
    - Guidance- Dressing, Stress control and how to enter the interview room.

- Self Introduction
    - Interactive & Discussion Mode
    - Students incorporate key areas like- Short & Long Term goals, Interest & Hobbies, Career Goals etc.

- Problem Solving Skills
    - Interactive & Discussion Mode
    - Example & Exercise Based
- Presentation Skills

- - Verbal Presentation on a topic to specified audience with the help of audio-visual aids
    - Creating effective power point presentation; using verbal communication.
- Group Discussions
- Group of 8-10 students and GD topic introduced. Tips how to excel in GD are shared.
- Students are given practice of putting their points, initiating, summarising, concluding and leading the discussions.
- Body Language
    - Script on Self- Introduction, Practising of the script, Competition on Self- Introduction.
- Personal Interview
    - Simulation method with mock practise. Knowledge of Types of Interview questions- Behavioural, Competence, EQ.
- Evidence of success
- The practice has resulted in increasing the placements. There is increase of around 30% placement over the period of last 5 years.
- The said module has helped the students to get placements even after they got passed out.
- The preparations of quantitative aptitude, reasoning, verbal communication has helped them to prepare well for competitive examinations.
- The confidence level and body language has significantly enhanced.
- It has helped to enhance competitive environment amongst students.

- 6. Problems encountered and resource required

- As the complete module was required to be conducted at a stretch, the curriculum timings were required to be re-adjusted. Accordingly it was done and academic activities were not hampered. The extra lectures were conducted against this activity.
- The placement companies are having varied criteria for selection of students. In order to normalize it, a specific module covering maximum criteria was implemented.

BEST PRACTICE II

In order to assist the students in their studies and to monitor their academic performance, Teacher Guardian (TG)

scheme is implemented.

Under this scheme 15-20 students were allotted to each faculty member.

Title Teacher-Guardian Scheme

Goal: To enhance academic performance of students through personal counseling and to resolve issues, if any.

The Context:

In the context of current social scenario, there is need for counseling the students. Students face many inter personal issues. In order to overcome these and to take out the best out of them, guidance & counseling is required. After taking admission to the Institute, a mechanism is required to guide and counsel the students. Teacher Guardian scheme is implemented in this context.

The Practice:

Under the Teacher Guardian Scheme, following processes and practices are carried out:

- 15-20 students are allocated to a faculty member
- At the start of an academic year, the TG scheme gets started.
- Notices regarding the same are circulated
- TG collects data in a format like contact details of student, parents, Local Guardian, earlier results etc.
- The students meet TG every fortnight.
- TG updates records of students like daily attendance, test results, internal assessment, assignments, activity details, co -curricular & extracurricular activities etc.
- In case of any problem, the TG counsels and guides the student
- It helps students to concentrate on their studies
- TG provides comprehensive advice on career, courses and jobs that can enable the student to make a proper and informed choice and understand what they can do after they are done with engineering.
- It helps to shape a student's behavior and also instill enough discipline in them.
- It relieves the burden and worries of parents and lessens their anxiety.
- It helps students to improve personal, home and family relationships, depression, anxiety and loneliness.

- **Evidence of success:**

- The discipline amongst students has increased which is evident from the fact that there was not a single case of in-discipline.
- It has helped to increase the academic results
- With the boost in confidence level, students have participated in many technical, curricular and extra-curricular activities.
- It has helped to enhance cordial relations amongst stakeholders

- **Problems encountered and resources required:**

  In the initial phase of implementation, students were resisting to open up. But in due course of time this problem was resolve after proper care.

  BEST PRACTICE III

  The Institute believes in high moral values and strong ethics. Through its teaching and functioning it is striving to inculcate these values in its students and faculty as well. Through courses on human values, the college emphasizes on the need for every student to be compassionate and considerate. This helps the students attain a holistic development. Through its practices, the college emanates strong ethical values. In order to get the importance of ethical values among the students where students are able to know what actions are best to do and what way is best to live or to describe the significance of different actions.

  Title: Value inculcation among the students through experiential learning

  Goal:

  To instill the values among students and thereby practice the holistic development of students.

  The Context:

  If values are integrated with the educational system as a whole, the better are be the result of

imparting values. Through quality teaching teacher can transfer true knowledge which helps to raise values among the students. It helps to imbibe professionalism in them. In view of this the Institute is promoting this practice through experiential learning.

The Practice:

The value culture is practiced through increasing participation of students in the events like:

Independence Day and Republic Day:

It is celebrated with great enthusiasm. Various Programmes are conducted after flag hoisting. On posting/ Retired Army / Air force / Navy officials are invited as guests and flag hoisting is carried out at their hands. The students get motivated by the experiences of these officials. It inculcates National spirit amongst them.

Rashtriya Ekta Diwas:

The Institute has celebrated "Rashtriya Ekta Diwas", also known as National Unity Day on 31st October 2019 to commemorate the 143rd birth anniversary of Sardar Vallabhbhai Patel, the Iron Man of India.

Constitution Day:

The Constitution Day is celebrated every year on 26th November. The students read out the preamble of Indian constitution. The mass recitation of preamble of Indian constitution is also held on this occasion.

Shahid Diwas:

The Shahid Diwas is observed on 26th November. The students pay homage to the martyrs who lost their lives in 26/11 strike.

Birth and Death anniversaries:

Rashtrasant Tukadoji Maharaj Death Anniversary :

The Rashtrasant Tukadoji Maharaj Death Anniversary is celebrated on October 29th every year at the Institute.

Teacher's Day:

Students organize various activities to celebrate the birth anniversary of Dr. Radhakrishnan Sarvepalli on 05th September every year. This day is celebrated as Teacher's Day.

Engineer's day:

Every year Engineer's Day is celebrated on 15th September. Students organize events like quiz, guest lectures, and many more activities.

Gandhi Jayanti:

Gandhi Jayanti is celebrated every year on 2nd October. Various programmes including cleanliness drives in and outside campus are conducted on this day. Students participate in huge number in "Swachhata Abhiyaan".

Evidence of success:

Name of the activity

Year

Number of students participated in activities

Celebration of international Yoga Day

2020-21

108

Rashtriya Ekta Diwas

2020-21

39

Tree Plantation

2020-21

38

Yuvak Diwas

2020-21

39

71th Constitution Day

2020-21

55

71th Republic Day

2020-21

80

Say No To Nylon Manza

2020-21

50

Pulse Polio Vaccination Campaign

2020-21

156

Problems encountered and resources required:

While organizing various events related to this activity, time management as per Academic Calendar was crucial. It was resolve with the proper planning and strategies.

File Description	Documents
Best practices in the Institutional web site	[View File](#)
Any other relevant information	**No File Uploaded**

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Industry Institute Interaction Cell

NIT, Nagpur has always emphasized on strong industry institute relationship. For this the college is having dedicated Industry Institute Interaction (III) Cell with objective of strengthening relationship between college and industry to improve student employability. A strong industry linkage helpsto achieve summer internships, visits, experts talk and opportunities forstudents to work on live projects. Through III Cell, faculty members are engaged with various industries for knowledge sharing which helps in improving research & consultancy.

Objectives of the III Cell

1. To bridge the gap between Industry and Institute.
2. To enrich the teaching learning process through industrial visit,guest lectures, etc.
3. To encourage the students for doing the industrialtraining/ Internshipcase studies and live projects.
4. To promote research, development activities and skill development workshop.

Activities under III Cell:

- Industry visit for students. (23 visit & 1083 students)
- Industry Expert Guest Lectures (95)
- Course lectures by Industry experts (82)
- Industrial Case Study.
- Vacation Industrial Training / Internship. (111)
- Industry based skill development training programme.
- Industry based live projects.
- MOU with industries for various activities.(30+)
- Industrial Research & Consultancy services
- Industry sponsored labs (1) JOHN DEER Automobile Lab

  MSME- Business Incubator (BI)

- we, "Nagpur Institute of Technology", have now been "approved by MSME" and got "Recognition as Host Institute (HI)/ to setup/ establish Business Incubator (BI)" for "Support for Entrepreneurial and Managerial Development of MSMEs through Incubator".
- We can now submit innovative ideas/projects for which "Rs. 15 Lakh per idea/project" will be provided by MSME. We can execute as many ideas/projects. Upon successful completion of

atleast 2 ideas/projects, we will be eligible to get "Rs. 1 Crore grant for setting up machinery including hardware and software"

- National Skill Development Corporation (NSDC)
- Is a not-for-profit public limited company incorporated on July 31, 2008 under section 25 of the Companies Act, 1956 (corresponding to section 8 of the Companies Act, 2013). NSDC was set up by Ministry of Finance as Public Private Partnership (PPP) model. The Government of India through Ministry of Skill Development & Entrepreneurship (MSDE) holds 49% of the share capital of NSDC, while the private sector has the balance 51% of the share capital.
- NSDC aims to promote skill development by catalyzing creation of large, quality and for-profit vocational institutions. Further, the organisation provides funding to build scalable and profitable vocational training initiatives. Its mandate is also to enable support system which focuses on quality assurance, information systems and train the trainer academies either directly or through partnerships. NSDC acts as a catalyst in skill development by providing funding to enterprises, companies and organizations that provide skill training. It also develops appropriate models to enhance, support and coordinate private sector initiatives. The differentiated focus on 37 sectors under NSDC's purview and its understanding of their viability will make every sector attractive to private investment.
- ARIIA Rankings 2021
- For 2020-21 year NIT participated in the ATAL Ranking of Institutions on Innovation Achievements (ARIIA Rankings 2021) – a flagship programme of AICTE and Ministry of Education, Government of India.
- we found a place in this Ranking in the category of "Colleges/Institutes (Private/Self Financed) (Technical)".
- AICTE CIISurvey of Best Industry Linked Institute-2020
- Nagpur Institute of Technology, Nagpur received"Platinum Ranking" in the prestigious "AICTE CII
- Survey of Best Industry Linked Institute-2020" forgood placement, Internships, Industry sponsored
- labs, Industry based activities like Projects,Seminar, Workshops, etc

- UNNAT BHARAT ABHIYAN

  Vision

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India.

Adopted Villages by Institute

- Fetari
- Borgaonkh.
- Bhartwada
- Bodhala
- Chicholi (CT)

- Benefits

  1) Encourage Indian higher education Institutions to engage with problems of rural India and to provide solutions for them.

  2) Develop an academic framework for working on societal problems, their solution, delivery, reporting and assessment.

  3) Re-visit where necessary the curriculum in technical education in educational and research institutions to incorporate inclusive technologies for rural India.

  4) Promote inter-disciplinary approach in higher education guided by live contexts.

  5)Develop over time, research areas which have developmental significance, such as drinking water, education, health, agricultural practices, electrification, agricultural and rural industries cooking energy, watershed analysis.

  6) Develop collaborations of academic institutions with key government flagship programs and develop formal course-ware for supporting the knowledge needs for the same.7) Promote networking and coordination among various science and technology based voluntary organizations and developmental agencies.

File Description	Documents
Appropriate web in the Institutional website	[View File]()
Any other relevant information	**No File Uploaded**

7.3.2 - Plan of action for the next academic year

The Plan of Action for next Academic year are as Follows :

1. **Institute will plan for Maharashtra Knowledge Corporation Limited(MKCL)Training Center which helps to students and faculties to do the new courses based on curriculum.**
2. **Institute will also plan National Skill Development Corporation(NSDC) Training center in the premises, which helps to students and faculties as well as researchers.**
3. **Institute will apply for AtalRankingof Institutions on Innovation Achievements (ARIIA)ranking.**
4. **Institute will plan to grant at least 02 National or International patent during this academic year.**
5. **Institute will also plan for at least 05 Copyrights based on research and innovative idea.**
6. **To start Professional Students Chapters like EWB & IE(I) India.**
7. **To plan at least 02 Grants like DST and IEDC to enhance research culture in the institute & it helps to research scholar (Faculties Pursuing Ph.Ds)**
8. **More thrust on Installation of UG projects in the Institute Premises to solve real time problems.**
9. **More faculties should register for Ph.D during this academic year (at least 10).**
10. **Ph.D Completed faculties will apply for Supervisor as well as Empanelment at LIT, Nagpur.**
11. **Institute will apply for Improvement in Ranking for AICTE CII Survey.**