



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

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 own campus	Yes
Phone no/Alternate Phone no.	09881711787
Mobile no.	9764974144
Registered Email	principal@nit.edu.in
Alternate Email	registrar@nit.edu.in
Address	Survey No. 13/2, Mahurzari, Near Fetari, Katol Road, Nagpur
City/Town	Nagpur
State/UT	Maharashtra
Pincode	441501

<b>2. Institutional Status</b>																			
Affiliated / Constituent			Affiliated																
Type of Institution			Co-education																
Location			Rural																
Financial Status			private																
Name of the IQAC co-ordinator/Director			Prof. C. U. Padole																
Phone no/Alternate Phone no.			09923203951																
Mobile no.			9764974144																
Registered Email			iqaccell@nit.edu.in																
Alternate Email			registrar@nit.edu.in																
<b>3. Website Address</b>																			
Web-link of the AQAR: (Previous Academic Year)			<a href="http://www.nit.edu.in/AQAR.php">http://www.nit.edu.in/AQAR.php</a>																
<b>4. Whether Academic Calendar prepared during the year</b>			Yes																
if yes,whether it is uploaded in the institutional website: Weblink :			<a href="http://www.nit.edu.in/Academics/Academic%20Planner%20odd.pdf">http://www.nit.edu.in/Academics/Academic%20Planner%20odd.pdf</a>																
<b>5. Accrediation Details</b>																			
<table border="1"> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> <tr> <td>1</td> <td>B</td> <td>2.31</td> <td>2019</td> <td>15-Jul-2019</td> <td>14-Jul-2024</td> </tr> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	B	2.31	2019	15-Jul-2019	14-Jul-2024
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				Period From	Period To														
1	B	2.31	2019	15-Jul-2019	14-Jul-2024														
<b>6. Date of Establishment of IQAC</b>			11-Jun-2018																
<b>7. Internal Quality Assurance System</b>																			
<table border="1"> <tr> <th colspan="3">Quality initiatives by IQAC during the year for promoting quality culture</th> </tr> <tr> <th>Item /Title of the quality initiative by IQAC</th> <th>Date &amp; Duration</th> <th>Number of participants/ beneficiaries</th> </tr> <tr> <td>3- Days Workshop on Web Designing for Beginners</td> <td>16-Jun-2020 3</td> <td>584</td> </tr> </table>						Quality initiatives by IQAC during the year for promoting quality culture			Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries	3- Days Workshop on Web Designing for Beginners	16-Jun-2020 3	584					
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3- Days Workshop on Web Designing for Beginners	16-Jun-2020 3	584																	

by Mr. Mohit Kewate, Softex, Nagpur		
One day workshop for the students of different Engineering Colleges on High Up Your LinkedIn Game Er. Govind Chandak, Business Head NSDM India.	05-May-2020 1	626
One Week Faculty Development Program Introduction to Forensic Science And Digital & Cyber Forensics by Mr. Ashish Badhiye	15-Jun-2020 5	776
One day online workshop on Social Media Marketing by Er.Govind Chandak, Business Head NSDM India.	09-May-2020 1	750
Online Three days workshop on Ethical Hacking By Jayesh Patel , Hacking Expert , Delhi	22-Apr-2020 3	45
Seminar on SAP and Data Science Mr. Parag Lanjekar, Sapalogy, Nagpur	06-Feb-2020 1	38
One Day Workshop on Raspberry Pi & Python by Er. Arpit Billore, CEO, Gyanarpan, Pune	31-Jan-2020 1	65
Two days Workshop on Gaming Architecture and Programming Under SIG Mr. Mahesh Warghane Student of 3rd Year, Information Technology	29-Dec-2019 2	40
Two Days workshop on Python Programming, Mr .Gaurav jumbhalkae , V3 dat Solution,Nagpur	27-Jul-2019 2	37
Seminar on Cloud Computing by Mr. Raj Arora, Revat Network	18-Jul-2019 1	86
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nagpur Institute of	National Service Scheme	RTM Nagpur University	2020 365	18050

Technology				
Nagpur Institute of Technology	Tree Plantation	Directorate of Technical Education, Nagpur Division, Nagpur	2020 365	18056
Nagpur Institute of Technology	DST-NIMAT Project 2019-20	Entrepreneurship Development Institute of India	2019 365	16000
Nagpur Institute of Technology	Unnat Bharat Abhiyan	Ministry of Human Resource and Development	2020 365	50000
Nagpur Institute of Technology	Essay Competition	National Testing Agency	2020 365	55000
<a href="#">View File</a>				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	<b>Yes</b>
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	<b>4</b>
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	<b>Yes</b>
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	<b>No</b>
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	
1. Students were mentored to score in university examinations and results were improved. 2. Teaching staff and students were motivated to enroll for online courses. 3. Entrepreneurship awareness is carried out among the students. 4. Students were motivated and guided to participate in technical events. 5. Students were guided for preparing quality projects, quality placements.	
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<b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>	

Plan of Action	Achivements/Outcomes
Effective teachinglearning process to achieve academic excellence.	1 Students secured 9.68 SGPA out of 10 in RTMNU W2019 examination, 73.65 results overall.
Industry-Institute interactions to be strengthened.	Gold Ranking in AICTE- CII Survey- 2019
Promotion of online courses	Total 69 students and faculty passed NPTEL online course examinations.
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<b>14. Whether AQAR was placed before statutory body ?</b>	<b>Yes</b>
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Name of Statutory Body	Meeting Date
College Development Committee	26-Feb-2020

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	<b>No</b>
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<b>16. Whether institutional data submitted to AISHE:</b>	<b>Yes</b>
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Year of Submission	2020
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Date of Submission	16-Jan-2020
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<b>17. Does the Institution have Management Information System ?</b>	<b>Yes</b>
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If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	<p>The Institute has a well designed Management Information System named as Sack Info. Sack Info 2.5 is a local area network (LAN) based software. The Sack Info 2.5 is having facility of Acquisition, Catalogue, Circulation, OPAC and Serial Control modules. All the major academic and nonacademic activities are implemented through MIS. Management Information System (MIS) software has been developed for all Teaching Learning planning and implementation processes, all pre examination, examination and post examination and supplementary processes such as Time table generation, student list generation, online payment for examination detention list attendance of students , all internal and end semester examinations, entry of all</p>
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	internal marks tabulations, result declaration, result analysis , letter to parents etc. are done through MIS system. Modules currently operational are Automatic Student ID Generation, Automatic Students Transaction in Next Semester, Roll List generation, Course offered and Course registration, Course registration approval by Faculty advisor, Online Attendance entry and monitoring/ reports, Parents letter generations and provisional detention list, Consolidation of Internal Marks, Online Exam Registration, Teaching Plan, Time Tables, Internal Marks, Result etc.
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## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The Institute ensures effective curriculum delivery through a well planned and documented process. Our Institute, Nagpur Institute of Technology, Nagpur is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur. Institute follows the curriculum (Syllabus/Course and Examination Scheme) and Academic Calendar provided by RTMNU, Nagpur. Curriculum is effectively delivered by working out systematic implementation plan along with relevant implementation processes.

- Action plan for implementation of curriculum is prepared by Dean (Academics) in-consultation with Principal and prior discussions with HoDs.
- Dean (Academics) proposes Institute Academic Calendar in-line with University Academic Calendar.
- Teaching workload is prepared by individual Head of Departments by referring University curriculum.
- Concerned HoD issues the subject choice form to all the faculty members of respective departments and subsequently the choice forms are collected back.
- Based on choices, the subjects are allotted to the faculty members. In addition, the expertise, experience and level of the subject is also considered by HoD while allotting the subject to the faculty member.
- Accordingly, the HoD asks to prepare Time Table and notifies it to all concerned faculty members and communicates a copy of the same to Dean (Academics).
- The concerned faculty member prepares the Teaching plan by referring the syllabus of the subject & Academic Calendar and HoD approves the same with suggestions, if any.

Accordingly the concerned faculty member maintains the course file.

- The faculty member records the daily attendance of Theory and Practical in Theory and Practical Diaries and also uploads in "SACKINFO" ERP software.
- 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.
- Class engagement and syllabus completion is monitored by HoDs and controlled by Dean (Academics) for effective implementation of curriculum.
- It's a regular practice to arrange various activities like: guest lectures, expert talks, trainings, workshops, seminars, site visits, industrial visits, case studies, etc. to increase effectiveness of curriculum delivery.
- 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 Lectures, Ecertificate Course also, they are encouraged to refer online NPTEL videos. • Students are also encouraged to execute the practical execution through Virtual Laboratories. • Collection of mid-term student feedback is a regular practice to keep track of academic progress and improvement. • Review meetings of HoDs, Dean (Academics) and the Principal to monitor the academic progress and to observe effective execution of the academic plan. • HoD's Conduct Monthly Meeting with Class Representatives to know more about subject related issues.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	01/07/2019	0	NA	NA

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	NIL	01/07/2019
No file uploaded.		

#### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science Engineering	02/07/2019
BE	Information Technology	02/07/2019
BE	Civil Engineering	02/07/2019
BE	Mechanical Engineering	02/07/2019
BE	Electrical Engineering	02/07/2019
BE	Electronics & Telecommunication Engineering	02/07/2019

#### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	237	Nil

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Seminar on Cloud Computing by Mr. Raj Arora, Revat Network	18/07/2019	86
Two Days workshop on Python Programming, Mr .Gaurav jumbhalkae , V3 dat Solution, Nagpur	27/07/2019	37

TWO days Workshop on Gaming Architecture and Programming Under SIG Mr. Mahesh Warghane Student of 3rd Year IT	29/12/2019	400
One Day Workshop on "Raspberry Pi Python" By Er. Arpit Billore, CEO, Gyanarpan, Pune	22/04/2020	65
Seminar on "SAP and Data Science" Mr. Parag Lanjekar, Sapalogy, Nagpur.	02/06/2020	38
Online Three days workshop on Ethical Hacking By Jayesh Patel , Hacking Expert , Delhi	22/04/2020	45
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#### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Information Technology	56
BE	Civil Engineering	71
BE	Electronics & Telecommunication	21
BE	Computer Science & Engineering	22
BE	Electrical Engineering	28
BE	Mechanical Engineering	16

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## 1.4 – Feedback System

### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Student feedback: Feedback from the students for the respective course is taken twice in a semester Mid term feedback and End term feedback on various teaching/learning aspects. The feedback form is been designed which comprises of various parameters. Feedback is conducted for all the students. Students having attendance more than 60 only those forms are considered for the analysis. These forms are analyzed by the feedback committee. This is a feedback on 5-point scale, which measures parameters like Subject knowledge, Expression, Teaching aids used, methodology etc. The feedback is consolidated and the average value of every parameter is calculated for the all the staff and for all the subjects. The overall average value for all the parameters is calculated and report of individual faculty is formed. These feedback reports are conveyed to the Principal and Dean Academics. Dean academics convey the faculty feedback to the respective HoDs. HoDs discuss the feedback to the individual faculty one by one and corrective measures if any, are informed to the respective faculties for further improvements and are counselled for the lacunae. Parents Feedback: Parents are important stake holders of this system. Parents meeting is periodically conducted in the college during Parent Teacher Meet and their suggestions are regularly obtained and analyzed. The following parameters are accommodated in the feedback. • Academic Performance and behavior of the student. • Attendance of the student. • Teaching at the department level. • Fees related issues. • Participation in the co-curricular activities and sports. • Environment. • Skill enhancement trainings. • Career guidance and Placement. Alumni feedback As the alumni is found to be the brand ambassador(s) of our institute, the feedback, of the alumni is also given, due considerations. Whenever any alumni visit the college, feedback is taken and a questionnaire is floated among them in which suggestions, improvements in the curriculum are received from alumni. The responses are analyzed on the basis of different parameters which helps to implement quality policy at institute level. It is observed from the earlier feedbacks that, alumni are quite satisfied with the infrastructure, library facilities. The suggestion from alumni mainly focuses on to keep pace with the ever changing technology. College has planned an initiative for filling the gap between curriculum and industries by introducing guest lecture on emerging technologies. Alumni interaction at department level across different events such as expert lectures, discussing industry job scenario with current batches, organizing mock interview etc are the benefits. Staff feedback is collected in a prescribed format and suggestions are taken for improvement.</p>

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the	Programme	Number of seats	Number of	Students Enrolled
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Programme	Specialization	available	Application received	
BE	CSE	60	53	52
BE	CSE (DSY)	23	23	23
BE	IT	60	28	28
BE	IT (DSY)	30	30	30
BE	ME	120	41	41
BE	ME (DSY)	38	38	38
BE	EE	60	31	31
BE	EE (DSY)	40	37	37
BE	CE	60	24	24
BE	CE (DSY)	42	42	42

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## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1143	Nil	76	Nil	76

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
76	76	8	20	7	5

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The institute has well established mentoring system .One such system is Teacher-Guardian Scheme under which students of various departments are divided into small groups and each group is assigned a faculty member as mentor/TG Coordinator for the entire programme duration to seek guidance on academics, project making, personal or psychological needs. • At first year level, students academic and personal issues of concern are well looked after by the mentor/TG Coordinator. The critical cases are handled by first year in charges and HoD. This way the students realize their responsibilities at the early stage itself. • Mentoring system is followed by all departments from the second year onwards. The students are given guidance for career, personal, besides academic issues. For higher semesters, the mentors allocated to the students will council same group of students for three years i.e. the same set of students will be monitored and counselled till they have passed the course. The meetings of mentorship are conducted every month, in which students meet their mentors for academic and personal issues. • The role of the mentor is to nurture the students and guide them for any issues they are coming across. The mentor keeps track on their improvements and counsels them accordingly. • Lecture wise attendance of the student is closely monitored, telephonically or through messaging parents are informed about their wards absentee. • Along with the mentors students are also counselled by subject faculties and HOD for improving their academic performance and attendance and schedule additional lectures/practical's. • TG monitors their progress and gives guidance to all the mentees and in a more intensive manner to those who

do not fare well in the evaluation components which include Assignments, Class test, Mid-session Examination (MST) or Pre University Examination (PUT). TGs also notify the performance of students in various state and national level examinations. • Apart from academic monitoring, students are encouraged to participate in different Technical and Co-curricular events held in campus and outside as well to help them reach their highest potential. • The mentors of the class discuss with each and every student individually and support them in all the possible ways to enrich their academic performance. The mentors contact the parents and educate them, if required about their wards performance, and the academic programmes of the college as well as the support system and the monitor system the student and parents. The mentors always keep a check on the attendance of the student, the marks/grades obtained in the internal examinations, and regarding his/her candidature in the campus placement and provide remedial coaching. HoD and faculty member of the concerned department hold meeting on a one-to-one basis with the parents of the students with unsatisfactory academic performance to give suggestions for clearing any backlogs. • Feedback is obtained from students through a planned questionnaire twice in a semester. Parent-Teacher meet are conducted and feedback from parents is obtained in every semester.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1143	76	1:15

## 2.4 – Teacher Profile and Quality

### 2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
75	76	Nil	17	11

### 2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr. Mahendra Makesar	Assistant Professor	Global teaching experience awards 2020 (GTEA 2020)
2020	Prof. Samrat Kavishwar	Assistant Professor	Young achiever Awards 2020 (Institute of Scholars)
2020	Prof. Rupesh Khorgade	Assistant Professor	Rashtriya Ratna Award 2020 ( Electro - tech engineer services - Kalavijan multipurpose society
<a href="#">View File</a>			

## 2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination

BE	414424210	III / II	25/11/2019	31/12/2019
BE	414419110	VII / IV	25/11/2019	31/12/2019
BE	414419110	V / III	23/11/2019	31/12/2019
BE	414419110	III / II	25/11/2019	31/12/2019
BE	414429310	VII / IV	25/11/2019	31/12/2019
BE	414429310	V / III	23/11/2019	31/12/2019
BE	414429310	III / II	25/11/2019	31/12/2019
BE	414461210	VII / IV	25/11/2019	31/12/2019
BE	414461210	V / III	23/11/2019	31/12/2019
BE	414461210	III / II	27/11/2019	31/12/2019

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#### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Reforms on Continuous Internal evaluation (CIE): Nagpur institute of technology follows guidelines of Rashtrasant Tukadoji Maharaj Nagpur University for internal evaluation and assessment procedure. Reforms in the Evaluation process: 1. Awareness of evaluation and assessment system in orientation program. 2. Conducting tutorial classes to clarify doubts and re-explaining the critical topics. 3. Regular conduct of group discussions, seminars, project seminars, guest lectures and Industrial visit. 4. Monitoring the improvement in slow learner and encouraging the fast learners by reviewing their performance. 5. Improvements through assignments. • The institute believes firmly in continuous evaluation of the students for their sustained performance. Hence a structured evaluation process has been designed and implemented. • Theory exams are prepared and conducted as per the University examination pattern. The institute conducts two MST of 40 marks each, two OT for 20 marks each and PUT of 80 marks which are conducted by exam cell. Six assignments of 10 marks each are given to students. • Exams are conducted by exam cell, department coordinators and internal squad comprising of senior faculty members oversees the smooth conduction of theory examination. • Faculty evaluates the answer sheets and distribute to the students for doubt clarifications and queries and results are declared within a week of the conclusion of the exam. • Faculty submits marks to Dean Office and HoD of respective department and marks are displayed on the notice board. • HODs conduct a meeting with department faculty members to discuss the students performance and necessary action plan for further improvement. • For laboratory evaluation, the institute conducts internal practical exam of 25 marks and journal evaluation is done on the basis of day-to-day performance in the laboratory. • External lab-examination is conducted for 25 marks as per regulation.

#### 2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

• Prof.-in-charge Academics prepares the draft of academic calendar for each semester in consultation with Principal and Dean (Academics). In-charge Academics gathers all the activities/events which will be conducting in the session from respective department HoDs, registrar, training and placement head, NSS in charge, Women cell in charge, Sports in charge and Online exam in charge. Taking into consideration all the national holidays and list of holidays declared by the RTMNU the academic calendar is prepared. • It includes all specific details like commencement of classes and end of session, national and university prescribed holidays, dates of assignments display, dates of internal exams, display of internal exam marks, expected schedule of University External Examinations, dates of Forum installation and other academic and

technical activities, NSS activities, cultural and sports events, annual social gathering, HOD and CR meet, Parents teacher meet, Industrial visits, Guest lectures, Academic audit etc. • The tentative schedule is first distributed in Principals meeting along with Dean (Academic) and all HoDs and after thorough discussions, academic calendar is finalized. • Academic calendar is circulated to all the departments and also posted on institute website for wide dissemination amongst all stake holders and is communicated to the students at the beginning of the semester. • The administration ensures that, the activities mentioned in the academic calendar are rigidly followed. • All internal exams and other activities like Parents teacher meet, Guest lectures are conducted as per the academic calendar. • Evaluated answer sheets are distributed in the class and an opportunity is given to the students to discuss the evaluation with the faculty and mistakes if any are rectified on the spot by the faculty. • Submission is done within the stipulated period and term work marks are allotted based on continuous assessment.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

[https://www.nit.edu.in/Naac/IQAC/PO\\_PSO\\_CO.pdf](https://www.nit.edu.in/Naac/IQAC/PO_PSO_CO.pdf)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
414419110	BE	Civil Engineering	52	52	100
414437210	BE	Electronics & Telecommunication Engineering	38	38	100
414429310	BE	Electrical Engineering	39	39	100
414461210	BE	Mechanical Engineering	76	76	100
414424210	BE	Computer Science Engineering	51	51	100
414424610	BE	Information Technology	27	27	100

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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.nit.edu.in/Naac/IQAC/StudentSatisfactionSurvey.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

### 3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Industry sponsored Projects	180	V3 data Solution	0	0
<a href="#">View File</a>				

## 3.2 – Innovation Ecosystem

### 3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Cloud Computing	IT	18/07/2019
Two Days workshop on Python Programming	IT	27/07/2019
TWO days Workshop on Gaming Architecture	IT	30/12/2019
One Day Workshop on "Raspberry Pi Python"	IT	31/01/2020

### 3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Design and Implementation of Real Time Health Monitoring using IoT	Mr.Dnyaneshwar Belkhede,Mr.Gaurav Parate, Mr.Bhushan Parate, Mr.Akshay Gothmare	JSW Science Conclave, Kalmeshwar	19/12/2019	Design and Implementation of Real Time Health Monitoring using IoT
Design and Implementation of Real Time Health Monitoring using IoT	Mr.Dnyaneshwar Belkhede,Mr.Gaurav Parate, Mr.Bhushan Parate, Mr.Akshay Gothmare	Gramyaan Tech Expo, Nagpur	26/12/2019	Design and Implementation of Real Time Health Monitoring using IoT
<a href="#">View File</a>				

### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NA	NA	NA	NA	01/07/2019
<a href="#">View File</a>					

## 3.3 – Research Publications and Awards

### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
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0	0	0
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### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Electrical Engineering	1
Civil	1
First year BE	1

### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	mechanical	13	0
National	Civil	12	0
National	Electrical	1	0
National	Information Technology	17	4.2
National	CSE	10	6.13
National	FYBE	6	0
<a href="#">View File</a>			

### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
IT	17
FYBE	4
ELECTRICAL	1
MECHANICAL	1
ETC	3
<a href="#">View File</a>	

### 3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Effect of spiral Coil on Heat Transfer Double Pipe Heat Exchanger- A Review	Mr. R.R. Bilawane	IJSRD - International Journal For Scientific Research Development	2020	0	NIT, Nagpur	Nil
<a href="#">View File</a>						

### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the	Name of	Title of journal	Year of	h-index	Number of	Institutional
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Paper	Author		publication		citations excluding self citation	affiliation as mentioned in the publication
NIL	NA	NA	2020	Nil	Nil	NIT, Nagpur
<a href="#">View File</a>						

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	5	182	23	30
Presented papers	18	Nil	Nil	Nil
<a href="#">View File</a>				

### 3.4 – Extension Activities

#### 3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
All India Nausanik Camp	Directorate General National Cadet Corps	1	1
NSC-I	3 Mah Naval Unit NCC	1	1
NSC-II	3 Mah Naval Unit NCC	1	1
Combine Annual Training Camp-609	4 Mah Naval Unit NC, Nagpr	1	1
<a href="#">View File</a>			

#### 3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Gold Rank Best Industry link Institute Gold Rank Best Industry link Institute	Gold Rank Best Industry link Institute	AICTE CII Servey	350
<a href="#">View File</a>			

#### 3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
NSS	MY FM	Swachhata Abhiyan at futala lake	1	52



		Post-Ganesh Visarjan		
NSS	NIT, NAGPUR	Street Play on Gender Equality	1	37
NSS	NIT, NAGPUR	Street Play on save girls	1	37
<a href="#">View File</a>				

### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Industry Visit	137	Institute Finance	1
<a href="#">View File</a>			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industry Academia Collaboration	Internship	Ordinance Factory Ambajhari	21/05/2019	20/06/2019	1
Industry Academia Collaboration	Internship	CONFIDENCE PETROLEUM INDIA LTD	01/12/2019	15/12/2019	4
Industry Academia Collaboration	Internship	AJANI ELECTRO LOCO SHED	17/06/2019	22/06/2019	3
Industry Academia Collaboration	Internship	AJANI ELECTRO LOCO SHED	08/07/2019	13/07/2019	1
<a href="#">View File</a>					

3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
CADCAMGURU	27/09/2019	The collaboration will encompass Trainings, Workshops on Industrial Automation, FDPs, Expert Seminars, Career Guidance, Skill Development	105

		Programmes, Project Guidance, Technical Events, Placement Assistance and other amalgamated activities.....	
NSDM INDIA, Pune	18/09/2019	Through this MoU, students will be benefitted for Workshops, Certificate programmes, Guest lectures, Internships, Placements, and other allied activities pertaining to Digital Marketing Skills.....	350
<a href="#">View File</a>			

#### CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

##### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
30	27.84

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Existing

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## 4.2 – Library as a Learning Resource

### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Sack Info ERP	Fully	2.5	2008

### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	20076	5682200	21	6164	20097	5688364
Reference Books	669	418119	198	95647	867	513766
e-Books	3560	13570	Nil	Nil	3560	13570
Journals	296	861267	Nil	Nil	296	861267
e-Journals	49544	85780	400	13570	49944	99350
Digital Database	4	13570	Nil	Nil	4	13570
CD & Video	709	Nil	Nil	Nil	709	Nil
Library Automation	1	300000	Nil	Nil	1	300000
Weeding (hard & soft)	Nil	Nil	Nil	Nil	Nil	Nil
Others (specify)	Nil	Nil	Nil	Nil	Nil	Nil

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### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NA	NA	01/07/2019

[View File](#)

## 4.3 – IT Infrastructure

### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	355	5	355	5	1	1	7	50	0

Added	0	0	0	0	0	0	0	0	0
Total	355	5	355	5	1	1	7	50	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

50 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NIL	<a href="#">NA</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
225000	190291	7200000	6837129

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

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 Institute has following policies for maintaining facilities-

The maintenance work is carried out by maintenance wing under departmental supervision. Computer and support facility maintenance: 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, The purchases of new computers, printer refilling, antivirus etc. is supervised by the procurement committee. Laboratory and other equipment like LCD projectors are maintained by technical supporting staff to some extent. In case of any repair requirement, service is hired from outside agencies by calling quotations for the same. Computer center with dedicated 358 computers well connected in LAN to high speed internet for the students to access internet, Other Labs are used exclusively for conducting practical. All the computers in the institute are connected in LAN with high speed internet. 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. Other laboratory equipments are maintained by technical supporting staff to some extent. In case of any repair requirement, service is also hired from outside agencies. Civil work maintenance: The civil renovation work and maintenance work of entire Institute is supervised by Building work Cell. Each department having one member in the cell to coordinate maintenance work and requirement. Building work Cell team then fulfills the requirement of Institute time-to-time. 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. Faculty members and

students can issue any books from the Central Library for specified period. Faculty members are allowed to keep book for one session whereas students are allow to keep for two weeks. Reading hall and Reference Section of the library is available for reading and reference purpose for the students and the staff members. 10 computers are available which are connected to high speed internet to access online material. Utilization maintenance Sports Complex, Classrooms etc.: Sports In-charge officer is responsible to keep Sport accessories in working conditions. Sports in-charge takes care of the play ground, hire external labours, if required for the maintenance of ground. Purchase of sports material as per requirement after approval from principal. Play ground is used by our students for practicing various sport events and prepare them for university level, state level and national level competitions.

<http://www.nit.edu.in/Naac/Procedure%20&%20Policies%20For%20Maintanance%20of%20Facilities.pdf>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	SSSS Tuition fee Waiver	29	145000
Financial Support from Other Sources			
a) National	Scholarship	1063	62016120
b) International	Scholarship	Nil	0

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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Aptitude Personality Development (CRT Programming)	29/08/2019	158	BARCLAYS in association with GTT NASSCOM
Guest Lecture on "Personality Traits Personality Assessment"	01/11/2019	120	Er.Allan Abraham, CEO Align InfoTech Nagpur
Twodays Workshop on Automation Any Where by Mr Sumit Kumar, FACE ACADEMY Pune	15/01/2020	44	FACE ACADEMY Pune.
DC Regular student Improvement classes	22/11/2019	197	Inhouse Faculty
Advanced trends in Product design	23/07/2019	64	Mr.Swapnil Udapurkar, Centre Head, CADD Centre Training Services Pvt. Ltd, Nagpur

Industrial Robotics and Automation	17/09/2019	85	Department of Robotics and Cloud Technology, RTMNU
Finite Element Analysis of Structure (FEAST)	30/01/2020	74	SVR Infotech, Pune
Training cum Internship Program on "Python Programming"	04/01/2020	138	V3 Data Solution
Two-Day Workshop on "Application of IOT"	14/01/2020	36	Mr. S. V. Shastrakar, Director ElectroAutomation
YOGA DAY CELEBRATION	21/06/2019	110	Dr.Jitendra Kotewar and students team
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Guest lecture on How to crack the GATE examination by Professor Santosh Kumar Sahu Phd Scholar Computer Science and Engg Dept Vishveshwaria National Institute Nagpur	51	Nil	3	2
2020	Guest Lecture on Industrial Training by Mr Wasu CEO, CMS IT Laxmi Nagar NAGPUR	Nil	55	Nil	Nil
2020	Two days Workshop on Automation	Nil	44	Nil	Nil

	Any Where by Mr Sumit Kumar, FACE ACADEMY Pune				
2020	Expert Talk on Google Assistant Programing by Mr Mohit Varu, Chief Operating Officer GIRLS SCRIPT FOUNDATATION Nagpur	Nill	62	Nill	Nill
2019	One Day Seminar On Digital Marketing by Mr Govind Chandak, Bussiness Head, NSDM Nagpur.	Nill	78	Nill	Nill
2020	Inspiratio nal Talk by Dr. Rozina Rana Confab With Achievers Mantras for Successful Career Pathway and Mental Health	Nill	400	Nill	Nill
2020	One Week Online Workshop on Employabilit y Skills	Nill	984	Nill	Nill
2020	Career opp ortunities in core industries by Mr. Prashant Deshpande, HR Manager at Mahindra & Mahindra Nagpur	Nill	57	Nill	Nill
2019	Industrial Robotics and Automation	Nill	58	Nill	Nill

by Mr. Anil  
Tatode ,of  
Robotics and  
Cloud  
Technology,  
RTMNU

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Antsglobe Technologies , Casepoint, Cognizant, Dhoot Transmission , Extramarks Edutech Pvt. Ltd, FACE LTD. , INFOSYS , JARO Education, Laxmi Agni Component Forging Pvt Ltd, Ronch Polymers Pvt. Ltd. , SoftDel Solutions Pvt. Ltd., Talentio, TCS Ltd. , Tech	1059	165	Advitas Pvt.Ltd. , Bajaj india Ltd. , CEAT Tyers Ltd. , Cognizant, Extramarks Edutech Pvt. Ltd, JSW Kalmeshwar, Mahindra Mahindra , Mauda thermal power Plant, Powercon Pvt. Ltd. , SGS Technical services, TAL Manufacturing Ltd. , Teleperformance Pvt.ltd, We	1460	28

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE Mechanical	Mechanical Engineering	Tulsiramji Gaikwad Patil	M Tech HPE



				College of Engg Technology, NagpurM Tech HPE	
2019	1	BE Electrical	Electrical Engineering	Shri Ramdeobaba College of Engineering & Management, Nagpur	M Tech EEP
2019	1	BE Civil	Civil Engineering	Gurunanak Institute of technology, Nagpur	M Tech Structural Engg
2019	1	BE Civil	Civil Engineering	KDK College of Engineering, Nagpur	M Tech Structural Engg
<a href="#">View File</a>					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	3
CAT	1
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Pratibimb 2K20-Cultural 1	Institute Level	457
Udaan- 2K20 Sports 1	Institute Level	1021
YOGA 1	Institute Level	112
SANKALP- 2K19 Ganesh Festival 1	Institute Level	118
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### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Runner up Interun iversity Volleyball Tournament	National	1	Nill	3030	Lokesh Milmile
2019	Particip	National	1	Nill	Nill	Divyani

	ant Interu niversity Vollyball Tournament					Shende
2019	Particip ant Interu niversity Ball Badminton Tournament	National	1	Nill	1784	Falguni Khobragade
<a href="#">View File</a>						
5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)						
<p>The Student Representative Council (SRC) The Student Representative Council (SRC) is considered to be a statutory structure as provided for in the Higher Education Act. The SRC offers a variety of services to students. SRCs work democratically to represent the student body in Institute decision-making and organize ways for students to participate in college life. 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):-</p> <ul style="list-style-type: none"> <li>• To provide a platform for students to support, share and excel in potential qualities.</li> <li>• To promote the views of students and to encourage students to become actively involved in their college tenure.</li> <li>• To provide actively participation and leadership opportunities.</li> <li>• To provide platform where students can personally voice their opinions</li> <li>• To participate in various activities/events at institute outside world.</li> </ul> <p>The Institute Students Representative Councils constitutes are:-</p> <ul style="list-style-type: none"> <li>• Chairmen- Principal, NIT Nagpur</li> <li>• One Teacher nominated by Principal</li> <li>• Teacher incharge of NCC</li> <li>• Teacher incharge of NSS</li> <li>• One student from each year per department</li> <li>• Sport Incharge</li> <li>• One outstanding student each from NCC, NSS, Sport Cultural</li> <li>• Two girls students</li> </ul> <p>The department wise student’s councils also exist, where every year forum installation conduction of various activities took place. The Department wise forum bodies are:</p> <ul style="list-style-type: none"> <li>• FAME ( Federation of Active Mechanical Engineers)</li> <li>• CESA (Civil Engineering Students Association)</li> <li>• Feeder-(Federation of Electrical Engineering Departmental Enthusiastic Role Model)</li> <li>• StACS ( Computer Science Engineering )</li> <li>• ITSA- (Information Technology Students Association)</li> <li>• ELECTROX (ETC Students Association)</li> </ul> <p>Students represent various administrative committees:</p> <ul style="list-style-type: none"> <li>• Library Committee</li> <li>• Hostel Committee</li> <li>• Canteen Committee</li> <li>• College Magazine Committee</li> <li>• Sports Secretary</li> <li>• Gathering Secretary</li> <li>• Rotract Club</li> <li>• National Service Scheme</li> <li>• Student special Interest groups</li> </ul> <p>Activities conducted by Students Representative Councils (SRC):-</p> <ul style="list-style-type: none"> <li>• To organize annual gathering (PRATIBIMB) at Institute.</li> <li>• To conduct annual sports (UDAAN) meet at Institute.</li> <li>• To organize SANKALP Ganesh Festival</li> <li>• Departmental forum installation.</li> <li>• To conduct Alumni meet every year</li> <li>• To arrange Farwell for passing out students.</li> <li>• To conduct various activities for students in institute.</li> <li>• To conduct various social activities.</li> </ul>						
<b>5.4 – Alumni Engagement</b>						
5.4.1 – Whether the institution has registered Alumni Association?						
No						
5.4.2 – No. of enrolled Alumni:						

0

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

0

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The institution functions on a decentralized governance system with properly administered interrelationships. Various committees/cells are formed to disseminate information, manage and execute curricular, co-curricular and extracurricular activities, which are managed and coordinated by cells/bodies/committee members consisting of teaching, non-teaching, students and support staff of the institute. The institute encourages organization of various activities to at the department as well as institute level to enhance competitiveness of students as well as faculties throughout the academic year with the support of the management. Teachers involvement to improve the effectiveness and efficiency of teaching and learning process is encouraged by providing various avenues to upgrade their knowledge and teaching processes. 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. Suggestions made by faculty and staff members are taken into account before implementing any decisions for the development of the college, which probes to the institutional practices for decentralization and participative management. Apart from HODs, the Dean (Academics), Dean (Student Welfare/SRC), Dean (III Cell), Dean (R D) and Dear (Administration) also takes care and addresses the issues concerning stakeholders through various cells, which consist of one faculty coordinator along with one faculty member and two student coordinators from each department in each cell. At the beginning of each session, the HODs identify areas in which students needs improvement and the same is communicated to the training and placement department. Accordingly, the training programs are arranged for the students. After the training sessions, student's performance is gauged by concerned faculty in charge, prominent learners are identified and motivated further to enhance their skills. The participative and decentralized governance is practiced in all the activities pertaining to participation of students and faculty members. The institute has over twenty-two established cells for the wholistic development of institute and its departments and are managed and run by faculties and students. Thus, encouraging participative environment. Thus, creating an environment for learning, which is evident from the student's achievement. Further, the students are motivated to take up innovative projects and entrepreneurship endeavors, concurrently. The students have proven the effectiveness of this approach by bringing laurels to the college. Games and Sports cell along with NSS cell, Extracurricular and Enrichment cell, Public Relations and Outreach Cell, and Enrollment and Student Welfare cell works hard for the student's development and participation in various activities at the Institute and outside the Institute. The inputs from the department heads are also encouraged in the decision making. Many students have excelled in sports as well as cultural activities. In addition, special interest groups (SIGs) consisting of faculties and students are formed to encourage research activities on recent trends.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	The Institute is self-financed private institute affiliated to RTMNU and gives admission to the student on the basis of JEE /MHT CET and their HSC score. The lateral entry for the direct second year program level admission is done through centralized admission process for diploma pass out student as per their eligibility criteria. To achieve this, we conduct various technical awareness program, promotional activities for awareness among the student about engineering.
Curriculum Development	The Institute is non-autonomous and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University (RTMNU). It adopts the curriculum designed and developed by University. Students are given platform to work and interact with industry through Internship, Industrial visits and field projects to minimize the gap between Industry and Institute and to give insight to students about actual functioning in industry. Students are facilitated with different add on training programs and certificate courses in institute to make them updated with current industry scenario. Value added courses for students are added and delivered by academicians and industry experts. To develop the skills of the students to gain success in the global competitive world various skill development programs, short term courses, expert lectures and workshops are conducted in the institute. The institute collects and analyzes the feedback on curriculum in structured format obtained from various stakeholders such as students, alumni, teachers, employers and parents.
Teaching and Learning	The Institute organizes expert lectures by inviting faculty from reputed academic institutes (National or International) and industry experts. Institute has adopted modern teaching learning practices with NPTEL, blended MOOCS, Google classrooms, Virtual labs,

online classes and e-yantra project which are all initiatives of MHRD. Teacher guardian scheme is introduced for the students from the inception of the institute to mentor students to solve their academic and personal problems. Teachers use ICT for effective teaching and learning. The Continuous Internal Evaluation (CIE) System Reforms are implemented which includes Mid Sessional Tests, Class Tests, Assignments and Group Assignments, Pre-University Test. CIE is robust and transparent.

#### Examination and Evaluation

The institute assesses the learning levels through the Class Test (CT) and Mid Sessional Test (MST). The Examination cell conducts the various examinations including Mid-Term Tests (MST-1/MST-2), End-Term (Final exam), Practical's exam (Internal External). The examination (Midterm) in each semester is conducted according to the syllabus approved by the subject teacher. Based on the interaction of students, the proficiency of students is judged. There are significant initiatives for advanced learners and slow learners. Remedial teaching is a built-in provision in the teaching learning processes which enhances the results. Students are evaluated continuously throughout the academic session.

#### Research and Development

The Institute encourages its teachers to conduct research for which a research cell and innovation cell has been in place to facilitate the research and extension activities. Different cell organizes workshops and sensitization programs to create research spirit amongst teachers and students. College provides incentives to recognized faculties and students in terms of financial support and duty leaves. Many teachers in the Institute have published their research papers in reputed National and international journals with good impact factors. Some faculties are having book chapters in edited book and books published from reputed publisher. The Institute has functional MoUs. The Institute has separate III CELL, through which it provides good industrial related activities like internships, industrial visits, guest lecture from industry

	etc.
Library, ICT and Physical Infrastructure / Instrumentation	<p>The Institute has well equipped laboratories, classrooms, tutorial rooms, library, seminar hall, playground, sufficient number of computers for teaching learning processes. The infrastructure includes 20 classrooms, 05 tutorial rooms, 38 laboratories, common workshop, central library, seminar hall, open ground for stage programs, canteen facility and playground, sick room, TP cell, girls' common room, boys' common room.</p> <p>Institute has 20 ICT Classrooms and 1 ICT enabled seminar hall. The campus is WiFi enabled with 358 computers in LAN connection. Institute has 3 servers which are used to host cyber activities of the Institute. Institute has WiFi/LAN connectivity. Library is fully automated by using ILMS (SACKINFO 2.5 Apart from this library is having book bank facility for backward students, subscription to national journals, SDs, hard copy of project reports, NPTEL video lectures. The Institute is having remote access to e-resources of the library which is done by DELNET.</p>
Human Resource Management	<p>Nagpur Institute of Technology has well established organizational structure to execute out smooth functioning of administrative and academic processes. Various bodies are formulated which constitutes the organization chart. The governing body is the highest decision-making body constituting members of the management, Principal and nominated faculty members. College Development Committee includes representatives of members of Advisory board from industry and academics. 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. It is based on Performance based Appraisal system. Due recognition is given to all the concerned. Principal, Heads of the Departments, sectional heads and co-coordinators of various committees have adequate participation in making decisions in academic and administrative processes under their</p>

	preview.
Industry Interaction / Collaboration	<p>The Institute has functional MoUs. The Institute has separate III CELL, through which it provides good industrial related activities like internships, industrial visits, guest lecture from industry etc. Based on industrial activities, Institute received Gold ranking in AICTE CII-Survey-2019. The Institute is running best practices like Campus Recruitment Training exclusively designed for the students in order to make them ready for placements. The Institute has dedicated Entrepreneurship Development Cell (EDC) to create the culture of Entrepreneurship amongst students. The prime focus of this cell is to provide a platform to convert student's skills/ideas into reality. It regularly organizes seminars and workshops for students and provides entrepreneurial support. This has resulted in developing budding entrepreneurs in the campus.</p>

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Administration	<p>The Institute has a well-designed Management Information System named as Sack Info. All the major academic and nonacademic activities are implemented through MIS. Management Information System (MIS) software has been developed for all Teaching Learning planning and implementation processes, all pre examination, examination and post examination and supplementary processes such as Time table generation, student list generation, online payment for examination detention list attendance of students, all internal and end semester examinations, entry of all internal marks tabulations, result declaration, result analysis, letter to parents etc. are done through MIS system.</p>
Finance and Accounts	<p>The Institute has a Tally software for managing the all the account related information.</p>
Student Admission and Support	<p>The Institute has a well-designed Management Information System named as Sack Info. The software stores all the information of the student and generate the unique id for the each student.</p>



<b>Examination</b>	The institute has the Sack info software for the college level examination for all pre and post examination processes such as entry of all internal marks tabulations, result declaration, result analysis, letter to parents etc. And for the university examination RTMNU web portal is available for the various examination work like exam form filling, hall ticket generation, attendance entry and result generation
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### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	NIL	NA	NA	Nill
No file uploaded.				

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Five Day FDP on Advances in Civil Engineering	NIL	26/05/2020	30/05/2020	877	Nill
2019	5 days FDP on industrial automation	NIL	17/06/2019	21/06/2019	14	Nill
2020	Advanced Trends in Engineering	NIL	19/05/2020	23/05/2020	420	Nill
2020	Two day workshop on Application of IoT and Embedded	NIL	14/01/2020	15/01/2020	7	Nill
2020	One Week Online FDP on:	NIL	19/05/2020	23/05/2020	7	Nill



	"Modern Trends in Electrical Drives (MTED)					
2020	Power Electronics and Drives	NIL	02/05/2020	04/05/2020	7	Nil
2020	Automation Anywhere	NIL	15/01/2020	16/01/2020	8	Nil

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Sucessful NAAC accreditation with A/A/A Grade	1	23/05/2020	23/05/2020	1
One week online FDP on overcoming the challenges in adopting online technology in teaching learning	2	06/05/2020	11/05/2020	6
IWCSET-2020	1	15/05/2020	16/05/2020	2
Five Day Faculty Development Program on Advances in Civil Engineering	9	26/05/2020	30/05/2020	5
Two week FDP on Prayog-Experiments on Click Using Vertual Lab	2	18/05/2020	27/05/2020	10
One week "Online Faculty Development Program on Scilab"	4	08/06/2020	13/06/2020	6
One week online Faculty development program on Qcad	1	09/05/2020	13/05/2020	5

Outcome based education and accedition	1	25/05/2020	29/05/2020	5
Advanced Trends in Engineering	1	19/05/2020	23/05/2020	5
QCad Training	2	21/05/2020	21/05/2020	1
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#### 6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
76	76	83	83

#### 6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>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</p>	<p>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.</p>	<p>Hostel Facility -On Campus for Girl Students Bus Facility from various routes for all Students</p>

### 6.4 – Financial Management and Resource Mobilization

#### 6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

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 in-charge 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

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Jayesh Patel- Cluesys Nagpur	5000	Technical Event -Online Test on Cyber Crimes
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

15000

## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NA	Yes	IQAC and Dean Academics
Administrative	No	NA	Yes	IQAC and Dean Academics

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Nagpur Institute of Technology always remains in communication with parents as an initiative to fulfil the expectations of stake holders. Parent-Teacher meet is organised to exchange the views and expectations of the parent and to discuss the progress of students. If the attendance of student is found poor, parent is informed about the same by faculty members and further discussion is carried by Head of Department with parent. Timely suggestions are received from the parent to improve and upgrade the system. Parents are also included on various statutory committees. Parent feedback is noted at each parent-teacher meet and analysed. Parent help is sought to solve societal problems, if any.

6.5.3 – Development programmes for support staff (at least three)

NIL

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Students were motivated and guided to participate in technical event.
2. Teaching staff and students were motivated to enroll for online courses.
3. Entrepreneurship awareness is carried out among the students.
4. Students were mentored to score for university examinations.

#### 6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

#### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Seminar on Cloud Computing by Mr. Raj Arora, Revat Network	18/07/2019	18/07/2019	18/07/2019	86
2019	Two Days workshop on Python Programming, Mr .Gaurav jumbhalkae , V3 dat Solut ion, Nagpur	27/07/2019	27/07/2019	29/07/2019	37
2019	Two days Workshop on Gaming Architecture and Programming Under SIG Mr. Mahesh Warghane Student of 3rd Year, Information Technology	29/12/2019	29/12/2019	30/12/2019	40
2020	One Day Workshop on "Raspberry Pi Python" by Er. Arpit Billore, CEO, Gyanarpan, Pune	31/01/2020	31/01/2020	31/01/2020	65
2020	Seminar on "SAP and Data Science" Mr. Parag Lanjekar, Sapalogy, Nagpur	06/02/2020	06/02/2020	06/02/2020	38

2020	Online Three days workshop on Ethical Hacking By Jayesh Patel , Hacking Expert , Delhi	22/04/2020	22/04/2020	24/04/2020	45
2020	One day online workshop on Social Media Marketing" Er.Govind Chandak, Business Head NSDM India.	09/05/2020	09/05/2020	09/05/2020	750
2020	One Week Faculty Development Program Introduction to Forensic Science And Digital Cyber Forensics by Mr. Ashish Badhiye	15/06/2020	15/06/2020	19/06/2020	776
2020	One day workshop for the students of different Engineering Colleges on High Up Your Linkedin Game Er. Govind Chandak, Business Head NSDM India.	05/05/2020	05/05/2020	05/05/2020	626
2020	3- Days Workshop on Web Designing for Beginners by Mr. Mohit Kewate, Softex, Nagpur	16/06/2020	16/06/2020	18/06/2020	584

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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Helping Hands	10/11/2019	21/11/2019	20	45
Street Play on save girls	15/08/2019	15/08/2019	22	15
Street Play on Gender Equality	25/09/2019	25/09/2019	24	13

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
1. Percentage of annual power requirement of the Institution met by the renewable energy sources: Response: 2 7.1.3.1 Annual power requirement met by the renewable energy sources (in kwh) Response: 3597.88 3. Total annual power requirement (in kwh) Response: 179894 KWh

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	1	10/11/2019	11	Helping Hands	To help needy people with all the necessary things through donation	65
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Handbook on human values and professional	01/07/2019	In this handbook Code of Conduct for Students,

ethics		Code of Conduct for Teachers and Code of Conduct for Governing Body along with code of conducts for principal.
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#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
1.Blood Donaton Camp	23/09/2019	23/09/2019	140
2.Swachhata Abhiyan at futala lake Post-Ganesh Visarjan	14/09/2019	14/09/2019	52
3.Donation to flood affected area by NSS students	14/12/2019	14/12/2019	155
4.Yuwa Mahitidoot workshop	12/10/2019	12/10/2019	33
5.Celebration of Matrubhasha Diwas	27/02/2020	27/02/2020	225
6.Nukkad Natak	15/08/2019	15/08/2019	39
7 Fit India Movement	29/08/2019	29/08/2019	105
8.70th Constitution Day	26/11/2019	26/11/2019	79
9.Say No To Nylon Manza	13/01/2020	13/01/2020	42
10.Tree Plantation	20/08/2019	20/08/2019	37

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#### 7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

**7.1.7 Eco-friendly Campus (Green Initiatives)** • Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants Eefforts towards green practices on the campus: a) Students, staff using bicycles b) Public Transport c) Pedestrian friendly roads d) Plastic-free campus e) Paperless office f) Green landscaping with trees and plants a) Students, staff using Bicycles About 10 students used bicycles. b) Public Transport Institute provides bus facility for students from different locations and routes. This adds to the environmental conservation reducing individual fuel consumption which avoid the under utilization of natural resources. Bus stop for city bus transportation service is located at "Fetri godown" which is 2 km away from college campus and from there college provides bus facility to the students. The University Curriculum includes Industrial and Site Visits for students of all branches. College buses are employed to carry students to and from the Industries and Sites. c) Pedestrian friendly roads The roads inside the campus are pedestrian friendly as all vehicles are compulsorily parked in the parking area. d) Plastic-free campus Efforts are taken by the Institute to create plastic free campus. Students and staff are counseled against use of plastic. e) Paperless office The Institute attempts towards making the office paperless. Open Wi-Fi facility is provided throughout the campus and important information

is forwarded to all by e-mails. f) Green landscaping with trees and plants The college has a large number of trees throughout the campus. It also has lush green lawns. Trees like Neem, Palm and Gulmohar are planted in large numbers. It is helping for better environment conservation. More trees are planted each year to beautify the campus and to achieve eco friendly environment. The maintenance of garden and plants has been outsourced and proper care is taken. "Environmental Studies" is a compulsory subject taught at 3rd/4th semesters of all disciplines. This helps in inculcating awareness about the environment issues among the students. g) Use of eco friendly Ganesh idols (without POP) is practiced and promoted. h) The Institute uses saplings to welcome guests instead of flower bouquet.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

7.2.1 Describe at least two institutional best practices (as per NAAC format given in next page) 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 o Practising Discussion o Various areas/sections related to Aptitude Test
- Aptitude Test Practice o Script on Self- Introduction, Practising of the script. o 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 o Workshop mode - Students prepare the resume and immediate correction and suggestions are provided. o Guiding the students to prepare the CV addressing to specific needs of the different fields and use of technical terminologies accordingly.
- Communication Interpersonal Skills o Script on Self- Introduction, Practising of the script, Competition on Self- Introduction. o Creative and innovative techniques of self introduction and practise to introduce within 30 secs and to include only relevant points. o Guidance- Dressing, Stress control and how to enter the interview room.
- Self Introduction o Interactive Discussion Mode o Students incorporate key areas like- Short Long Term goals, Interest Hobbies, Career Goals etc.
- Problem Solving Skills o Interactive Discussion Mode o Example Exercise Based
- Presentation Skills o Verbal Presentation on a topic to specified audience with the help of audio-visual aids o Creating effective power point presentation using verbal communication.
- Group Discussions o Group of 8-10 students and GD topic introduced. Tips how to excel in GD are shared. o Students are given practice of putting their points, initiating, summarising, concluding and leading the discussions.
- Body Language o Script on Self- Introduction,



Practising of the script, Competition on Self- Introduction. • Personal Interview o Simulation method with mock practise. Knowledge of Types of Interview questions- Behavioural, Competence, EQ. 2. 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 students behaviour 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 have 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 / Airforce / Navy officials are invited as guests and flag hoisting is carried out at their hands. The students gets 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 2019-20 107 Nukkad Natak 2019-20 39 Tree Plantation 2019-20 37 Fit India Movement 2019-20 105 Swachata Hi Seva 2019-20 44 Swachata Pakhwada 2019-20 43 Swachhata Abhiyan at futala lake Post-Ganesh Visarjan 2019-20 52 Blood Donaton Camp 2019-20 140 Yuwa Mahitidoot workshop 2019-20 33 70th Constitution Day 2019-20 79 Donation to flood affected area by NSS students 2019-20 155 Say No To Nylon Manza 2019-20 42 Celebration of Matribhasha Diwas 2019-20 225 Plastic Ban and spread awareness about use of Helmet 2019-20 57 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

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

[http://www.nit.edu.in/Naac/Best\\_Practices.pdf](http://www.nit.edu.in/Naac/Best_Practices.pdf)

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Institutional Distinctiveness Incubation Entrepreneurial Support: Nagpur Institute of Technology, Nagpur have dedicated Entrepreneurship Development Cell (EDC) to create the culture of Self Employment i.e. Entrepreneurship as one of the career option. Cell is always enthusiastic to motivate students by carrying out various entrepreneurial activities in collaboration with VIA, MCED, MSME, EDI-DST etc. The prime focus of this cell is to provide a platform to convert student's skills/ideas into reality in the field of

entrepreneurship. Cell is regularly organizes interaction of successful entrepreneurs, awareness program, skill development program, innovation competitions and small scale industry visits. The college is also having Ministry of Rural Development (MoRD) Project, PMKVY to make Rural Poor Youth Employable. One of our final year students, Mr. Nadeem Khan is received various entrepreneurship awards like Young Entrepreneur Innovator, APJ Abdul Kalam Innovation, Innovator Google Startup weekend and set his startup - Vzoads, Nagpur (15 Employee). It is online platform for offline advertising. etc.

Another student Miss. Ritu Malhotra, Alumni received award as "Top women of the year 2018 Startup" for the manufacturing of Ezy Spit product in Nagpur city.

The activities conducted under ED cell are as follows

Sr. No.	Name of Program	Date	Venue	No of participants
1	Workshop on Intellectual Property Rights	12/10/2019	Raman Innovation Centre, Raman Science Centre, Nagpur	01 Faculty
2	Workshop on Intellectual Property Rights	14/12/2019	Seminar Hall, NIT, Nagpur	43 Faculty
3	3 Days DST Sponsored EAC	16-18/01/2020	Seminar Hall, NIT, Nagpur	84 Students
4	10 Days MSME Sponsored Entrepreneurship Awareness Program (EAP)	20-30/01/2020	Model Class Room, NIT, Nagpur	34 Students

Evidence of success: 1) Mr. Nadeem Khan Name of Department : Mechanical Engineering Name of Entrepreneur : Mr. Nadeem Khan Designation : CEO Name of organization : N. S. Lave Private Ltd., Nagpur Organization address and website: Nagpur Start Session : 2019-20 Batch/Year of Passing : 2019-20 Details of Enterprise activity : Water purifier Photos : Photograph during inauguration function of Startup-N. S. Lava Nagpur 2) Mr. Mohit Kewate Name of Department : Computer Science and Engineering Name of Entrepreneur : Mr. Mohit Kewate Designation : CEO Name of organization : Digitalsoftex Company Organization address and website: Nagpur Start Session : 2019-20 (1jun 2019) Batch/Year of Passing : 2019-20 Details of Enterprise activity : Digital Marketing Branding , Online Training , Digital Services , Web Development Designing , Graphic Designing many more. 3) Mr. Rahul S. Burde Name of Department : Civil Engineering Name of Entrepreneur : Mr. Rahul S. Burde Designation : CEO Name of organization : Shri Construction. Organization address and website: Bhandara Start Session : 20/03/2020 Batch/Year of Passing : 2019-20 Details of Enterprise activity : Building planning and Design, Estimating and costing, putting and painting and building material supplier.

Provide the weblink of the institution

<http://www.nit.edu.in/Naac/IQAC/InstitutionalDistinctiveness1.pdf>

## 8.Future Plans of Actions for Next Academic Year

Nagpur Institute of Technology is aiming at upgrading the quality of each individual by exploring the inherent skills. It is proposed to promote research and innovative thinking culture among students and faculties. We plan to implement best teaching-learning practices. It is proposed to improve PhD faculty members as per the required norms. We plan to promote students and teachers to go through various research methods, technical changes, research publications so that intellectual output of the institution will increase. We will concentrate on various funding schemes from government and non government organisations. Other plans are as follows: 1. To Participate in National Institutional Ranking Framework (NIRF). 2. To Participate in ARIIA Ranking 3. To form Institute Innovation Council (IIC) 4. Various research activities will be strengthened through project based learning. 5. Various proposals such as MODROB, Short term training program for faculty etc. will be submitted to AICTE, UGC to encourage research activity in institute. 6. Industry-Institute Interaction will be strengthened. 7. To motivate students, alumni interaction will be carried out. 8. Training and Placement cell will try to facilitate service by conducting maximum training activity, placement drive, and internship and to improve employability of students. 9. Entrepreneurship Awareness workshops will be conducted to promote the culture. 10. Students will be promoted to prepare for various competitive

