



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		NAGARJUNA INSTITUTE OF ENGINEERING TECHNOLOGY AND MANAGEMENT
Name of the head of the Institution		S.M.Kelo
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		07118-322211
Mobile no.		9049472992
Registered Email		maitrey.ngp@gmail.com
Alternate Email		mkrahangdale1234@gmail.com
Address		Nagarjuna institute of engineering Technology and Management
City/Town		Nagpur
State/UT		Maharashtra
Pincode		440023

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr. Murlidhar Kesharao Rahangdale			
Phone no/Alternate Phone no.		07118322212			
Mobile no.		9049472992			
Registered Email		mkrahangdale1234@gmail.com			
Alternate Email		maitrey.ngp@gmail.com			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		<a href="https://nietm.in/wp-content/uploads/2022/12/NAAC-SSR-Report.pdf">https://nietm.in/wp-content/uploads/2022/12/NAAC-SSR-Report.pdf</a>			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="https://www.nietm.in/wp-content/uploads/2022/11/academic_cal_2018-19.pdf">https://www.nietm.in/wp-content/uploads/2022/11/academic_cal_2018-19.pdf</a>			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	C	1.92	2019	08-Feb-2019	07-Feb-2024
6. Date of Establishment of IQAC			01-Feb-2017		
7. Internal Quality Assurance System					
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		
Formation of task force	05-Jul-2018		14		

to monitor the action plan for quality improvement in the institute.	365	
Two days workshop on research methodology	18-May-2018 2	55
One day training program for faculties on approaches to teaching and learning skills.	14-Jun-2018 1	40
One day workshop on Google classroom	05-Feb-2019 1	80
Two days FDP on Artificial Intelligence and Neural Network	02-Mar-2019 2	60
National level Project Competition organized by Department of Electrical Engineering	16-Feb-2019 1	50
One day workshop on	01-Aug-2018 1	21
Guest lecture on	08-Sep-2019 1	150
Guest lecture on Resume Development program by Mr. Jayesh Deshmukh .	29-Jan-2018 1	95
Guest lecture on Basic interview skill by Mr. Abhay Pande	20-Oct-2018 1	98

L::asset('/', 'public') .'/public/index.php/admin/get\_file?file\_path='.encrypt('Postacc/Special\_Status/'. \$instdata->upload\_special\_status)}}}

[View Uploaded File](#)

**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
NIL	NIL	NIL	2019 00	0

[View Uploaded File](#)

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View Link](#)

**10. Number of IQAC meetings held during the year :**

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View Uploaded File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	Yes
If yes, mention the amount	150000
Year	2018

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

Internal Administrative Audit conducted for Accounts/Finance/Procurement/Stores, Admin, Students Section, Medical Facility Safety, Infrastructure house keeping and security at the end of the year. Internal Academic Audit conducted at the end of each semester. One Day Workshop organized on "Professional Soft Skills Development" for nonteaching staff members. IQAC framed recruitment guidelines for the year 201819 and revised Institute's Feedback Policy for the year 201819. Institute prepared Feedback Policy 201819 considering Student Satisfaction Survey and feedback from all stakeholders for continous improvement of the Institute. Respective departments conducted faculty development programmes regularly. Institute conducted skill based training programmes for its nonteaching staff.

[View Uploaded File](#)

**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**

Plan of Action	Achivements/Outcomes
STTPs, FDPs for faculty development	Various Faculty development programmes, training programmes etc. were organized by the academic departments during the year. Faculties have also attended STTPs, FDPs outside parent institute. This has enhanced the faculty's skill sets and has introduced them to the modern technology of their respective field.
Training programmes, workshops for supporting staff.	1. One Day Seminar on" Roles and Responsibilities" at institute level on 09/03/2019. 2. Administrative Training Programme-1- "Computer Skill Enhancement" on 28/01/2019. 3. One day workshop on " Communication Skill" on 28/02/2019. 4. One day workshop on " MS-Office" on 28/02/2019.

Implementation of Management Information System	The Institute procured MIS software, trained the faculties and implemented it successfully in the academic year. It has significantly improved the Institute's overall academic system and its database management for effective monitoring and control of academic endeavors.
Standardized recruitment guidelines	With standardized recruitment guidelines the complete process of recruitment was regulated in a well organized manner and has also enhanced transparency in the process to identify, recruit & retain the highly qualified, experienced, talented professionals.
Revision of Institute's Feedback Policy	Institute's feedback policy was revised with introduction of Student Satisfaction Survey and other feedbacks in line with NAAC's revised framework and has definitely helped the Institute in enhancing its quality in all the spheres.
Conduction of internal administrative audits for system improvement.	Internal administrative audits were conducted for Accounts/Finance/Procurement/Stores, Admin, Students Section, Medical Facility & Safety, Infrastructure & house keeping and security at the end of the year. This has significantly enhanced the administrative system of the Institute.
Internships for 2nd year and 3rd year students	2nd year and 3rd year students undergone internship during vacations and it has foster their personality and inculcated professional skills.
Institutional planning accordance to revised NAAC guidelines	The roles and responsibilities were assigned to the concerned departments to carry out the activities as per the plan and maintain its records/proofs. It has aligned the Institute's happenings with NAAC and has significantly improved database management in relation to it.
Student's encouragement for participation in Various Competitions..	Students actively participated in National Level Project Competition, Survey Camps Organised by respective departments.
Conduction of Campus recruitment training programmes	Such training programmes helped students enhance their soft-skills and has improved their employability quotient.
<a href="#">View Uploaded File</a>	

14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Name of Statutory Body</td> <td style="width: 50%; text-align: center;">Meeting Date</td> </tr> <tr> <td style="text-align: center;">Governing body</td> <td style="text-align: center;">20-Jun-2019</td> </tr> </table>		Name of Statutory Body	Meeting Date	Governing body	20-Jun-2019
Name of Statutory Body	Meeting Date				
Governing body	20-Jun-2019				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2018				
Date of Submission	07-Mar-2018				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>The management information system is installed to smoothly conduct, monitor, analyze and controlled various activities being executed in the institute. The MIS comprised various operational modules such as academic module, establishment module, finance account module, library module etc. In academic module portrays teaching plan entry, timetable entry, students roll list management, daily attendance, generation of academic reports and teaching schemes, subject topics are added into this module. In establishment module the records of all the students is maintained such as admission related information, students updation, promotion of students to higher classes. In finance accounts module the details of funds from the various sources are maintained. This includes collection of fees and dues from students, receipts of scholarships, freeships from social welfare departments, staff salary, payments to the various parties. The library module record all the books like textbooks, reference books , rare books , journals, magazines. Through this module students and staff can verify the availability of books in the library.</p>				

## 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

For effective implementation of curriculum at college levels following steps are taken. Principal of the college initiate the process by conducting meeting at Head level of all the departments. The Principal also conducts the meetings of various central portfolios in charges. The Heads of various departments then conducts the meeting at department level and plans various strategies for implementation of curriculum. Being affiliated to RTM Nagpur University, we follow the academic calendar proposed by the University every year. Based on this academic calendar the college level academic calendar is prepared, stating the commencement date, last working date, schedule for various academic activities, dates for conduction of internal assessment tests and schedule for various co-curricular and extracurricular activities. Subjects are allotted to teachers as per the choice given, if possible or the domain areas. The Time Table is prepared for the semester. Subject wise Teaching plans are prepared and approved by the Hood and Principal. Teaching plan is devised as according to university teaching scheme with number of lectures and tutorial as prescribed. Teachers prepares a course file which includes academic calendar, syllabus of the subject, time table, class strength, teaching material like subject notes, PPTs, e- learning material and question papers of the past five years for distribution of marks in the units of the subject. Industrial visits are organized for practical exposure to students. Conference, workshops, seminars and Technical fests are organized. Study groups are formed for peer-to- peer learning. Laboratory manuals are prepared and updated as per the prescribed syllabus and subject requirements. Implementation and monitoring of teaching-learning process is done by academic monitoring committee at department level for effective execution of curriculum. Principal in tandem with HOD also monitors the effective execution of curriculum and gives suggestion to the concerned subject faculty if required for the improvement. Extra classes are conducted for the subjects lagging behind in the syllabus coverage. Monthly attendance of students is displayed so as to keep the check on regularity of students. The Subject files, lab files and course files are updated throughout the semester by the respective teachers and approved by HOD and Principal. The subject files containing question bank, model solution set, University question papers, assignment and tutorial sheets and the lecture notes are kept in the department for reference. After evaluation of internal assessment exam academically weak students are identified and same is communicated to parents, special remedial classes are conducted so as to improve their performance. As well as advanced learners are also identified and motivated to improve their performance. Students are encouraged to refer old question papers, assignments, e- resources and NPTEL videos. Also Students are encouraged to use Wi-Fi internet connectivity for using e- books and solve online papers of various other educational platforms. Academic progress and improvement of the student is done by conducting unit tests, mid-term examination and a formal feedback mechanism on curriculum from the students, faculty members and alumni are collected and the same is analyzed in a more focus way to take

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

Certificate courses on tranformer and induction motor design EE	NA	04/07/2018	7	Employability	Design of Transformer and Induction Motor
Certificate course ASP.Net CSE	NA	05/07/2018	60	Employability	Programming
Certificate course on Python CSE	NA	20/08/2018	60	Employability	Programming
Certificate courses on Mechanical Components like compresors IC Engine Re frigeration ME	NA	06/09/2018	6	Employability	Automation
Auto CAD ME	NA	26/12/2018	8	Employability	Skill Development
Certificate Program on web development CSE	NA	02/01/2019	8	Employability	Programming
PLC based Automation EE	NA	05/02/2019	7	Employability	Automation
Certificate course on Compuer Network CSE, EE	NA	15/02/2019	8	Employability	Skill Development

## 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
BE	NA	Nil
<a href="#">View Uploaded File</a>		

### 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	Programme Specialization	Date of implementation of
-----------------------------	--------------------------	---------------------------



CBCS		CBCS/Elective Course System
BE	Electrical Engineering	01/06/2018
BE	Computer Science & Engineering	01/06/2018
BE	Mechanical Engineering	01/06/2018
BE	Civil Engineering	01/06/2018

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

	Certificate	Diploma Course
Number of Students	21	0

## 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
Campus Recruitment Training (EE)	10/10/2018	18
Campus Recruitment Training (Civil)	12/12/2018	35
AUTO CAD Training (ME)	25/12/2018	14
Campus Recruitment Training (CSE)	02/02/2019	7
Campus Recruitment Training (Mech)	03/02/2019	13
Advance JAVA Basics in association with CSE Department	10/02/2019	7
PLC based industrial Automation (EE)	25/02/2019	20
<a href="#">View Uploaded File</a>		

### 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	Civil Engg.	52
BE	Electrical Engg	36
BE	Mechanical Engg	32
BE	Computer Science & Engg	10
<a href="#">View Uploaded File</a>		

## 1.4 – Feedback System

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

Students	Yes
Teachers	Yes
Employers	Yes
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**

**Feedback Obtained** Feedback mechanism- In order to ensure constant growth of the institute and progress of the students we have put an effective feedback mechanism in place that collects, analyses and implements suggestions from the students to make academic, infrastructural and policy improvements in the college. The feedback is collected from the students in a Google form in a standardized format. The form is sent through email to the students. The feedback is solicited in academic and nonacademic areas. This feedback is developing the roadmap for the academic year ahead and aligns the interests of various stakeholders with the institutional interests. Further, departmental level feedback is taken from students to enhance the teaching learning process. The analysis of such feedback is done on an institutional level and in case of any grievance the appropriate department initiates an enquiry and proposes suitable action to be taken by the Principal. . The college has also made many infrastructural improvements to provide bigger, better equipped classrooms to the students and fulfill all necessary requirements of space. Feedback of stakeholders is sought regularly about infrastructure and learning resources for ensuring their satisfaction. Accordingly, continuous review of infrastructure and learning resources is carried out by respective committees and the recommendations are integrated for upgrading, maintaining and utilizing physical, academic and support facilities. The alumni of the college who have moved on to industry or for higher studies additionally give a feedback on how their years in the institution have helped them perform better. The purpose of this Policy is to provide a framework for obtaining, summarizing and documenting information on student and stakeholder perceptions of the quality and effectiveness of the Institute’s curriculum for use in program evaluation, accreditation and other academic quality assurance processes and activities. The scope of this Policy covers all the programs run by Maitrey Education Society Nagarjuna Institute of Engineering, Technology and Management, Nagpur. Specifically, this Policy provides a framework for: 1. monitoring and improving the quality of students learning experiences through student feedback concerning teaching, learning and assessment. 2. Providing students and stakeholders with the opportunity to actively participate in the continual improvement of programs. 3. Recognizing, supporting and extending good practices for effective implementations of curriculum provided by the Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur. Responsibilities • Coordination of responses to feedback is the responsibility of the Heads of Departments • Student feedback is a core component of program evaluation but feedback is also sought from Alumni, Parents and Industry. • A range of feedback mechanisms including surveys, focus groups, informal comments and other participatory activities is employed as appropriate. Collecting Feedback: • The Institute seeks student feedback in a form which can be captured, analyzed and reported every time a course is delivered through course end survey. • A core set of questions will form the basis of a survey deployed to systematically evaluate teaching and learning in all UG PG courses. Actions on summarized feedback: • All the feedbacks received from various stakeholders are summarized and analysis is carried

**CRITERION II – TEACHING- LEARNING AND EVALUATION**

**2.1 – Student Enrolment and Profile**

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
-----------------------	--------------------------	---------------------------	--------------------------------	-------------------

BE	CIVIL ENGINEERING (DSE)	66	66	66
BE	ELECTRICAL ENGINEERING (DSE)	59	23	23
BE	MECHANICAL ENGINEERING (DSE)	59	28	28
BE	COMPUTER SCIENCE & ENGINEERING (DSE)	41	10	10
BE	CIVIL ENGINEERING (FY)	60	16	16
BE	ELECTRICAL ENGINEERING (FY)	60	7	7
BE	MECHANICAL ENGINEERING (FY)	60	7	7
BE	COMPUTER SCIENCE & ENGINEERING (FY)	60	25	25
<a href="#">View Uploaded File</a>				

## 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
2018	503	0	57	0	0

## 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
57	30	13	5	2	13

[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)

Institute is implementing students mentoring system in which each faculty has been assigned 10 students

.Concerned teacher is maintained students mentoring file of each student where the details like personal information, previous record, academic performance ,details of no. of internship and internship certificates, sport activity, paper presentation etc. are included. The teacher meets the students periodically and monitors their performance and activities. Any personal problem of the student is also discussed and counseled him/ her as per need. The parents are always informed about the progress of the students. This monitoring system in the college is very effective for the overall development of the students. Frequency of meeting with the students is once in 15 days. The mentoring system which has been developed for the students are of professional guidance /carrier advancement/course work specific/ overall development. The institute has a separate cell for professional guidance apart from classroom teaching. Expert lectures are also arranged by the T P cell in accordance with the departmental co-coordinator to guide the students. The institute also has Industry –Institute Interaction cell and Rural Entrepreneurship development cell to guide the students. The training and placement cell (T P) has been active not only in arranging campus recruitment drive but also offers hand on practices in various industries to the students. The campus recruitment training (CRT) program is conducted every year by the TP cell of the college. The TP cell in coordination with departments organize aptitude and reasoning test for the students which helps them for the selection in campus drive (online and offline)

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
503	57	1:9

## 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
48	40	8	8	2

### 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
2018	Dr. M. K. Rahangdale	Vice Principal	Member, General Engineering Board, RTM Nagpur University, Nagpur.
<a href="#">View Uploaded 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	419264210	Seventh Semester	28/11/2018	31/12/2018
BE	419264210	Fifth Semester	27/11/2019	31/12/2018
BE	419264210	Third Semester	30/11/2018	31/12/2018
BE	419264210	First Semester	12/12/2018	22/01/2019

BE	419235610	Seventh Semester	28/11/2018	31/12/2018
BE	419235610	Fifth Semester	28/11/2018	31/12/2018
BE	419235610	Third Semester	30/11/2018	31/12/2018
BE	419235610	First Semester	12/12/2018	22/01/2019

[View Uploaded File](#)

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

The Teaching, learning and evaluation are an integral part of education. The evaluation process includes continuous internal evaluation (CIE), the conduct of regular internal examination, the evaluation of answer sheets and displaying the performance of the students. Every department conduct unit wise test, mid term test based on first three units and Pre University test (PUT) before the commencement of end semester examinations. The PUT examinations is conducted based on university exam pattern which covers complete syllabus. Two assignments are given in a semester. Assignment -1 is based on first three units and Assignment-2 is based on remaining three units. Subject teacher provides question banks based on past university question papers. Regular viva-voice is being conducted during practical hours. Appropriate grade is being allotted to students for every practical experiments. If the students failed in any test exam or remain absent due his/her unavailable circumstances then re-test is conducted. Based on the performance of the students in the internal exam, slow learners are identified and retests as well as extra classes are conducted for slow learners. In order to enhance experiential or field learning the students are motivated to undergone summer internship, Industrial visits and training programs.

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

Academic Calendar for odd and even semester is prepared by Principal in consultation with HOD's At the beginning of the academic session the students are being informed regarding academic calendar and same is uploaded on college website and displayed on main notice board of every department. With the permission of Principal minor changes may be introduced in the academic calendar. Total number of Instructional and working days are given as per the University norms. Schedule of commencement of session and classes are clearly mentioned in the academic calendar as per university directions. The schedule of internal examination, Expert lecture , Industry visit, Internship programs, Sport activity is given and strictly adhered. Display of marks of an various Internal examination is clearly mentioned. Schedule of academic review and academic audit is prepared and adhered. Remedial classes to be conducted as per requirement.

**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://nietm.in/wp-content/uploads/2023/03/2.6.1-CourseOutcome.pdf>

**2.6.2 – Pass percentage of students**

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the	Number of students passed in final year	Pass Percentage
----------------	----------------	--------------------------	------------------------------------	---	-----------------

			final year examination	examination	
419237010	BE	Electronics and Communication	6	4	66.67
419264210	BE	Mechanical Engineering	21	13	61.90
419235610	BE	Electrical Engineering	26	17	65.38
419224210	BE	Computer Science and Engineering	7	7	100
419219110	BE	Civil Engineering	51	38	74.51
<a href="#">View Uploaded File</a>					

## 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)

<https://nietm.in/wp-content/uploads/2023/03/StudentsSatsfactionSurvey-2018-19.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
Minor Projects	60	Videesha Solar pannel Manufacturing Company Umred.	0.5	0.5
Students Research Projects (Other than compulsory by the University)	180	Phonix Structural Industries PVT. LTD, Umred	0.6	0.6
Students Research Projects (Other than compulsory by the University)	120	PMA Constraction Company, Hingna	0.5	0.5
Industry sponsored Projects	183	Nagarare Contruction Compony	0.3	0.3
<a href="#">View Uploaded 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
Faculty industrial visit to Navegaon Khairi Dam	Civil Engineering	01/07/2018
Worshop on Basic Programming Using Python	Computer Science and Engineering	14/07/2018
Seminar on Earthing and its Importance	Electrical Engineering	18/07/2018
A Guest Lecture On "Electrical Machines" .	Electrical Engineering	25/07/2018
Faculty industrial visit to KEC Tower , Butibori, Nagpur.	Civil Engineering	26/07/2018
A Guest Lecture On "Cyber crime Awareness" .	Computer Science and Engineering	17/08/2018
One day Workshop on Cyber Security	Computer Science and Engineering	04/09/2018
Faculty industrial visit to Rahasan Engineering, Hingna, Nagpur.	Mechanical Engineering	07/09/2018
A Guest Lecture On "Effective Ways Of Communication" .	Electrical Engineering and Civil Engineering	15/09/2018
One day worshop on "Emotional Intelligence"	All Branches	15/09/2018
One day Workshop on "Excel And Word Training"	CSE ,EE.MECH	19/10/2018
Guest lecture on "Basic Interview Skill " .	EE ,CSE, MECH ,CIVIL Final year	20/10/2018
Guest lecture on "How to face online Interview " .	EE ,CSE, MECH ,CIVIL Final year	30/10/2018
Object Oriented Concepts Using C	Computer Science and Engineering	17/12/2018
Guest lecture on "Resume development" .	All Branches	29/01/2019
Faculty Industrial visit to P.V Textiles Private ltd	Mechanical Engineering	01/02/2019
Seminar on How to wirte a Resesarch Paper	Electrical Engineering	04/02/2019
Faculty industrial visit to Trust Systems and Software (I) Private Limited. IT Park, Nagpur.	Computer Science and Engineering	03/03/2019

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
-------------------------	-----------------	-----------------	---------------	----------

Hotel, Travel and Tourism Management	Samir Kinekar, Avinash Dawane, Avinash Dawane	Project presentation, competition organised by WCEM, Nagpur	25/03/2019	State
Industrial Load Controller and its Management	Nikhil Khankhule, Aniket Surkar, Bhushan Dahikar, Gopal mundhe, Manish Kalaskar	Project presentation, competition organised by WCEM, Nagpur	22/03/2019	State
Microsilica in Concrete	Karan Shambharkar, Anitya Patil, Akanksha Jambhulkar, Harsihal Katolkar, Tushar Awale, Kushal Katre	Project presentation, competition organised by VIT, Nagpur	01/03/2019	State
Cargo Management System	Amol Nannaware Umesh Patil, Puja Karnase	Project presentation, competition organised by VIT, Nagpur	25/02/2019	State
Design and Fabrication of Staircase Climbing Hand Truck	Swapnil Dilip Hadke, Nikhil Arun Kale Aksah Waghmare, Nilesh Thakare	Project presentation, competition organised by VMIT, Nagpur	16/02/2019	State
Study and Analysis of Flue Gas Desulfurization in Coal Fired Thermal Power Plant	Prashant K. Waghmare, Subrajit Sudhir Roy, Akash Vijay Warkar, Shashank Satish Moon	Project presentation, competition organised by VMIT, Nagpur	16/02/2019	State
Automatic Railway Gate Controlled Using Arduino	Priti marke, Pratiksha Solanke, Priyanka Jaiswal, Pragati Khobragade	Project presentation, competition organised by GWCOE, Nagpur	06/01/2019	State
<a href="#">View Uploaded 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	Nil	Nil	Nil	Nil	Nil
<a href="#">View Uploaded File</a>					

### 3.3 – Research Publications and Awards

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

State	National	International
1	2	2



3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NA	0

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	First year Engineering	2	1.2
<a href="#">View Uploaded 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
Electrical Engineering	4
Civil Engineering	5
Computer Science and Engineering	4
Mechanical Engineering	5
First Year	2
<a href="#">View Uploaded 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
Synthesis Physiocochemical Characterisation, Solid state conductance and biological study of V (iv), MoO <sub>2</sub> (VI) and UO <sub>2</sub> (VI) coordination compounds with 2,4-dihydroxy-5-acetyl acetophenone and 1,4-diaminobutane Schiff base tetradentate	Dr. M.K. Rahangdale	NCETS	2019	1	N.I.E.T.M Nagpur	1

ligand						
Evolving Walvet Based Recurrent Neural Network for Short term Load Prediction active hours.	Dr. S.M.Kelo	International Journal of Neural Network Application	2018	1	PRMITR, Badnera-Amravati	1
<a href="#">View Uploaded File</a>						

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Evolving Walvet Based Recurrent Neural Network for Short term Load Prediction active hours.	Dr. S.M.Kelo	International Journal of Neural Network Application	2018	1	1	N.I.E.T.M
<a href="#">View Uploaded 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	22	19	18
Presented papers	2	8	6	10
Resource persons	0	0	2	0
<a href="#">View Uploaded 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
Health Checkup Camp	NSS Unit	29	50
Guest lecture on Women Health Issues	NSS Unit	28	50

Health awareness Rally	NSS Unit	24	50
Importance of Education	NSS Unit	26	45
Tree plantation	NSS Unit	25	50
Swachhta pledge	NSS Unit	21	45
Introduction to NSS	NSS Unit	23	35
Tree Plantation	NSS Unit	20	50
<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
Adoption of Satnavri Village	Appreciation Certificate	Sarpanch Grampanchayat Satnavri ,Nagpur	25
<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
Shramadan at Satnavri Village	NSS Unit	Shramadan	25	25
Swachha Bharat Abhiyan	NSS Unit	Swachhata Abhiyan	21	23
<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
Faculty training for newly recruited faculty	5	Self financed	2
Expert Lecture on Research Methodology	3	Self financed	1
Industry visit and interaction with Agrow Foods	2	Self financed	1
Industry visit and interaction with Ashish Dhatu Udyog Ltd	3	Self financed	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
Internship	Training	Nagrare construction company, Nagpur	02/08/2018	02/09/2018	95
Internship	Training	SEETCH Nagpur	21/12/2018	31/01/2019	25
Internship	Training	Reliance Power Limited MIDC	21/12/2018	31/01/2019	55
Internship	Training	Super Themal Power station	10/11/2018	15/11/2018	45
Internship	Training	Ajani Loko Shade	02/07/2018	07/07/2018	35
<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
V.S Informatics Private Limited.Nagpur	06/09/2018	To Create Interface Between Academic Institutions And Which Help Students For Taking Up Gears Technologies Based Solar Entrepreneurship Ventures.	35
Rahasan Engineering. Nagpur.	08/09/2018	To Support Students Pertaining To Internship And Placement Opportunities Of EE   ME Students of NIETM	45
Trust Software System Private Limited.Nagpur	14/09/2018	To Provide Internship Opportunities To CSIT Students.	15
SMEC Hyderabad. (DIP)	14/09/2018	To Provide Internship	39

Opportunities In Panel Based Company And To Help students To Select Specific Skill In Any Company.

[View File](#)

## 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
15	14.3

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
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Seminar Halls	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing

[View File](#)

### 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 partially)	Version	Year of automation
Offline Library Management System Software	Partially	1.0.1	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	8589	2029849	3	1658	8592	2031507
Reference Books	2283	931042	6	2559	2289	933601
Journals	40	45097	25	27150	65	72247
e-	25	0	0	0	25	0

<b>Journals</b>						
<b>e-Books</b>	460	0	6	0	466	0
<b>Library Automation</b>	1	35400	0	0	1	35400
<a href="#">View File</a>						

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
<b>Murlidhar Kesharao Rahangdale</b>	<b>Green Chemistry</b>	<b>SWAYAM</b>	<b>07/07/2019</b>
<b>S.M. Kelo</b>	<b>Super Critical Technology In Thermal Power Station</b>	<b>Pathshala</b>	<b>05/08/2019</b>
<a href="#">View File</a>			

#### 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
<b>Existing</b>	<b>225</b>	<b>8</b>	<b>225</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>40</b>	<b>0</b>
<b>Added</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>225</b>	<b>8</b>	<b>225</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>40</b>	<b>0</b>

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

<b>40 MBPS/ GBPS</b>
----------------------

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
<b>Lecture Capturing System</b>	<a href="https://nietm.in/wp-content/uploads/2022/12/4.1.1.pdf">https://nietm.in/wp-content/uploads/2022/12/4.1.1.pdf</a>
<b>ERP</b>	<a href="https://nietm.in/wp-content/uploads/2023/01/6.2.3.pdf">https://nietm.in/wp-content/uploads/2023/01/6.2.3.pdf</a>
<b>Digital Classroom</b>	<a href="https://nietm.in/facilities/digital-classroom/">https://nietm.in/facilities/digital-classroom/</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	Expenditure incurred on	Assigned budget on	Expenditure incurred on
--------------------	-------------------------	--------------------	-------------------------

academic facilities	maintenance of academic facilities	physical facilities	maintenance of physical facilities
120	114	140	137

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)

1. Working procedure and policy for Computer infrastructure maintenance • Computer related maintenance is raised by the concerned department in the prescribe format duly signed by HOD. • Computer related technicians visit the location, analyze the problem and repair it. If there is any requirement of hardware components the same is being notify to HOD for procurement with the permission and sanction of Principal. • After receiving the hardware components the technical staff repairs it. 2. Working procedure for Electrical maintenance • Requirement of electrical maintenance are received by various department in prescribed format duly signed by HOD and Principal. • After receiving the requirement the technician for the electrical maintenance visits the specified location and identified the problem and repairs it. • In case of any requirements the concerned technician takes the prior approval from the authority and procures the materials if required and after receiving it repairs within the due course of time. 3. Utilization of Computer infrastructure • The institute has computer center for all the departments having sufficient number of computers along with internet connectivity and used by students for academic activities, filing of online exam forms, scholarship forms, moocs courses etc. 4. Utilization and maintenance of Library, Laboratories, sports facility, class room etc. • Reference books, rare books, print journals etc are used by students and staff in the designated reading hall. • Digital library network resource is used for accessing e- resources online. • The library has audio/video visual section were students observed NPTEL videos of IITs and some reputed institutes.

<https://nietm.in/wp-content/uploads/2023/03/4.4.2-Final.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	MES, NIETM Scholarship	10	400000
Financial Support from Other Sources			
a) National	Post Metric Scholarship	328	17152112
b) International	Nil	Nil	Nil
<a href="#">View File</a>			

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 implementation	Number of students enrolled	Agencies involved
Interview Techniques Using ETNL Language Lab Software	22/10/2018	80	NIETM, Nagpur.

Campus Recruitment Training	09/07/2018	95	TP Cell NIETM
Remedial Classes All Branches Final year (Even sem)	04/03/2019	28	Faculties of respective department, NIETM, Nagpur.
Remedial Classes All Branches Final year (Odd sem)	24/09/2018	31	Faculties of respective department, NIETM, Nagpur.
Remedial Classes All Branches Third year (Even sem)	04/03/2019	50	Faculties of respective department, NIETM, Nagpur.
Remedial Classes All Branches Third year (Odd sem)	24/09/2018	55	Faculties of respective department, NIETM, Nagpur.
Remedial Classes All Branches Second year (Even sem)	04/03/2019	80	Faculties of respective department, NIETM, Nagpur.
Remedial Classes All Branches Second year (Odd sem)	24/09/2018	95	Faculties of respective department, NIETM, Nagpur.
Remedial Classes ( Second sem)	04/03/2019	40	Faculties of first year department, NIETM, Nagpur.
Remedial Classes ( First sem)	24/09/2018	45	Faculties of first year department, NIETM, Nagpur.
<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	Campus Recruitment Trainings and Career Counselling of all final year students	3	102	3	70



2019	Department level guidance for competitive examinations ( final year students)	102	2	10	2
------	---	-----	---	----	---

No file uploaded.

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
5	5	1

## 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
Shining Sun Pvt Ltd	15	5	HDFC Bank	15	1

[View File](#)

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
2018	2	Mechanical Engineering	Mechanical Engineering	Kasturi Sikshan Sanstha Institute of Management, Sikrapur.	M.B.A
2018	1	Electrical Engineering	Electrical Engineering	Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur.	M.Tech
2018	3	Civil Engineering	Civil Engineering	Sinhagad Institute of Management, Pune.	M.B.A
2018	2	Computer Science & Engineering	Computer Science & Engineering	Jhulelal Institute of Technology	M. Tech
2019	2	Mechanical Engineering	Mechanical Engineering	Vainganga College of	M.Tech

				Engineering	
2019	2	Electrical Engineering	Electrical Engineering	PCE Nagpur	M.Tech
2019	1	Electrical Engineering	Electrical Engineering	GNIET Nagpur	M.Tech
2019	3	Computer Science & Enggineering	Computer Science & Enggineering	PIET Nagpur	M.Tech
2019	3	Civil Engineering	Civil Engineering	Ramdev Baba College of Engineering	M.Tech
2019	2	Civil Engineering	Civil Engineering	Anjuman College of Engineering	M.Tech
No file uploaded.					

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	11
GRE	0
Any Other	10
No file uploaded.	

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

Activity	Level	Number of Participants
Rangoli Competition	Inter College	25
Mehandi Competition	Inter College	20
Fashion Show	Inter College	50
Pro Kabaddi	Inter College	30
Cricket Mania	Inter College	60
Badminton	Inter College	16
Vollyball	Inter College	40
Singing Competition (Solo)	Inter College	15
Singing Competition (Duet)	Inter College	10
Dance Competition (Solo)	Inter College	10
<a href="#">View File</a>		

### 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
------	-------------------------	------------------------	-----------------------------	-------------------------------	-------------------	---------------------

2018	Nil	Nil	Nil	Nil	Nil	Nil
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institute has well established student representative council which organises the various co-curricular activities for overall development of students at institute level. Every department has its own departmental forums such as Civil engineering student association (CESA), Mechanical engineering student association (MESA), Electrical engineering student association (EESA) and computer science engineering student association (CSESA) which organises regular activities at its levels. These forums are professionally organised, managed and owned by the students community. Each class has CRs, as their class representatives to mitigate any sort of queries on behalf of the students of that class. Department wise student forum details are as follows:-

- Mechanical Engineering Student Association (MESA): Seminars, workshops, expert lectures, from industry resource persons, industry visits, cultural activities, participation in project and poster competitions in the parent institute and other reputed institutes, blood donation, youth day, and sport competition at departmental level, co-ordination with training and Placement cell in regards with arrangement online/offline campus drive, carrier recruitment training etc.
- Computer Science Engineering student Association (CSESA): Computer Science Engineering conducts the number of activities for overall grooming of students of the department under the departmental forum CSESA. Under this forum department conducts technical program like coding competitions, technical guest lectures, aptitude test, skill oriented workshops to meet the industry requirement.
- Electrical Engineering student Association (EESA): Electrical Engineering student in association with EESA perform various activities like solar panel design and installation system. Under this banner, students in a semester regularly visits to thermal power station at Khaperkeda, Koardi. They visits to load dispatch centre (LDC) to know in depth about the role of SCADA of the load dispatch centre situated at Nagpur. The students of the forum conducts workshops, seminar on cutting edge technologies.
- Civil Engineering student Association (CESA): Students on this platform conduct different activities such as field visits at construction site, survey camp using total station, dams, Samruddhi Mahamarg, to gain the practical knowledge. Also organises expert lectures from resource persons of reputed construction industry.

**5.4 – Alumni Engagement**

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

102

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

25000

5.4.4 – Meetings/activities organized by Alumni Association :

One Alumni Meet organized (Interaction with Head of Department and Faculties, Guidance related to projects, career, entrepreneurship, Internship, placements etc. to students.)

**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)

A decentralized functioning management empowers the departments to function with a greater flexibility and share responsibility accountability in a more focused way. 1. Head of departments functions independently with their roles and responsibilities. Various portfolios are created such as class teacher, laboratory incharges, academic monitoring committee, internal Examination, departmental training placement coordinator, time table incharge, departmental hospitality incharge, training and placement officer etc. for effective governance and management of the institute endeavors. Departmental heads also delegate work as per assigned portfolios to their subordinates to ensure smooth functioning of work task to be completed within the given schedule of time. 2. The significant concept that has been implemented by the college is managerial role of the staff faculty members their participation in the decision making process in matter related to academic non-academic nature. This has created a sense of involvement, responsibility accountability among supporting staff faculty members resulting in efficient administration of the college. Various committees consisting of staff from various departments provide efficient coordination among teammembers in co-ordination with decision making authority.

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

Yes

## 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
Teaching and Learning	<p>The planning organization of teaching, learning and evolution scheduled for all courses is done by HODs of respective departments. For effective teaching learning process, classroom teaching is equipped with ICT tools like PPT, video lectures, NEPTLlectures, MOOC, s etc. Students well prepared by participative learning, Experimentallearning, Case studies, Presentationbased on projects, miniprojects are given to students.</p> <p>Various workshops, seminars, communication skills, Expert lectures are conducted for students. Based on above activities feedback suggestions are sought from students and other stakeholders which are analyzed in a in a more focused way which is used for further continuous improvement</p>
Industry Interaction / Collaboration	<p>The institute has signed various MOUs with reputed industries to bridge the gap between Industry-Institute academia and enhance the skills among the student fraternity. In view of this ,Institute every year arranges various activities like summer internship , industrial visits , hands-on-training ,</p>

value added courses , industrial project ,expert lectures for the benefits of students . Entrepreneur development cell is established for Increasing the industry- institute interaction and getting practical exposure and techniques in industry. Guest lecturers of industry resource persons are organized for faculty members to make them familiar with ongoing activities knowledge on present day industrial scenario.

Research and Development

The research and Development cell is established at institute level with an aim to promote research and development activities in newly emerging and challenging areas of Engineering technology , science humanities , faculty members are motivated to publish research papers in the peer reviewed International national Journals conferences .They are encouraged to attend workshops /seminars held in other reputed organizations present papers . They are also encouraged to organize various workshop /symposia at departmental levels. Students are always motivated encouraged to present their talent ideas in the forum of project poster presentation not only at departmental level but also in other reputed institute to seek prizes in the competitions

Examination and Evaluation

For internal Examination , one professor incharge is being nominated by the Principal .One faculty member from each department including first year Engineering assist him/her for smooth conduction of various internal examinations of the institute . Subject incharge prepared the question paper as per the university pattern in consultation with respective HOD. The subject incharge evaluates the answer sheet and display on the notice board for information of the students. for failure students and absents students the concerned subject incharge conduct the retest

Human Resource Management

The Institute appoints number of qualified faculty as per AICTE /Govt. Maharashtra Normsthrough the procedure of open advertisement and interview by expert committee. Soft Skills Training for student's .It aims to develop for core companies required for the

industry such as communication skills, creative thinking, leaderships and problem solving skills, personal management. This training is provided through various modules like soft skills training (SST). Employability enhancement training (EET), campus to corporate, FDP for faculty, organized enrichment program for both teaching and nonteaching staff members for upgrading their skills in the latest technology. Special 7 days leave is given for marriage of the staff. The word of the staff members will be provided with concession of 50 in the tuition fees

Library, ICT and Physical Infrastructure / Instrumentation

Library- Library has sufficient volumes for all departments. Digital Library facilities with national and International online journals also provided. Library administration like issue/ return of books is maintained through through library software. Every year, additional volumes of books are procured based on the requirement from the all the departments or recommendations made by university from time to time. Students are permitting to access the reference books, online journals for their learning process. Every department is equipped with digital classroom with NPTEL videos for various subjects ICT Tools: - Power point presentation (PPT) is being prepared by the faculty members for the various subjects and implemented in the classes for interactive purpose. Physical Infrastructure/ Instruments :- A dedicated team maintained the academic Infrastructure and other facilities of the institute .

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

E-governance area	Details
Planning and Development	Academic related documents are generated in faculty panel and HOD panel. Student attendance is generated in faculty and HOD panel, teaching plan ,tutorial plan, workshop plan, industry visit plan etc
Administration	All types of leave application can be submitted by faculty members through HOD panel. Leave approval record can be seen by faculty members in their panel. Leave applications submitted by faculty members appeared in HOD panel for approval which is approved by the

	principal. Other facility like OPAC link for library, Complaint Management is also available.
Finance and Accounts	Tally and other related software's are used by the accounts department for accounting purpose.
Student Admission and Support	The data is maintained by the admission cell of the admitted students. The data is maintained as per the area of specialization and class wise. This helps the admission department to keep track of the students admitted to the college and seats lying vacant in the institute.
Examination	In the university examination the online question papers system is adopted by the University. The Online valuation system is adopted and executed which interns results the fast declaration of the University results. All the Internal examinations marks are online submitted to the university.

### 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
2018	Dr. S. M. Kelo	National Conference on Renewable Energy Resouces	NIETM Nagpur	5000
2018	Prof.Ashwini Walde	IRNET International Conference on Electrical and Electronics Eng ineering(ICEEE-2018)	NIETM Nagpur	5000
2019	Prof.Prashant Gumgaonkar	International Conference on tech trends in science engineering	NIETM Nagpur	3000
2018	Dr. M.K. Rahangdale	Workshop on Patent Filling	NIETM Nagpur	5000
2018	Prof.Prshilku mar Ingle	QUARK National conference in Tulsiram Gaikawad Patil College of	NIETM Nagpur	4000

		Engineering		
2018	Prof. Pawan Raut	National Conference On IOT and Cyber Security	NIETM Nagpur	2500
2019	Prof. Nidhi Somkuwar	National Conference On Advance Structure Design	NIETM Nagpur	3000
<a href="#">View File</a>				

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)
2018	One day Faculty Development programme on "Teaching Learning methodology"	NA	15/06/2018	15/06/2018	40	Nil
2018	NA	One day workshop on Component Testing and repair	16/06/2018	16/06/2018	Nil	15
2018	NA	One Day Computer Awareness Program for supporting staff	17/06/2018	17/06/2018	Nil	15
2019	One day workshop on Google Classroom	NA	11/02/2019	11/02/2019	40	Nil
2019	NA	Workshop on "Professional Soft skill development"	15/04/2019	15/04/2019	Nil	16
2019	One Day	NA			50	Nil



	Faculty Development programme on "Teaching Learning methodology"		26/04/2019	26/04/2019		
2019	One day workshop on Internet of Things and its future aspects	NA	20/05/2019	20/05/2019	38	Nil
<a href="#">View File</a>						

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
One day Workshop on Curriculum Development of Chemistry (B.E. Sem I and Sem. II)	2	18/07/2019	18/07/2019	1
One day Workshop on Curriculum Development For Applied Mathematics for B. E. First year organized by Department of Mathematics	2	29/06/2019	29/06/2019	1
One day workshop Internet of Things and its future aspects	11	20/05/2019	20/05/2019	1
Two days workshop on Measuring Outcomes, Good documentation as Innovations and Best Practices	8	24/02/2019	25/02/2019	2
Mechanical	12	16/12/2018	18/12/2018	2

Manufacturing and Monitoring using Matlab (EE ME)				
Faculty Development Programme Language skill using language lab	9	03/12/2018	04/12/2018	2
One day workshop on IQAC NAAC's Revised Accreditation Framework	10	25/08/2018	25/08/2018	1
One day workshop on AUTOCAD (Mechanical Engg)	8	12/05/2018	12/05/2018	1
<a href="#">View File</a>				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
19	38	8	20

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1.Reimbursement of claim for attending conference/FDP/STTP/Workshop, Membership fee for professional society for teaching staff and Incentives to faculty for award/recognition. 2.Free transportation/Bus Facility 3. Insurance Scheme. 4. Grant of Maternity Leaves to female staff. 5. Advance against salary facility. 6. Centralize reprographic facility(Xerox). 7. Facility of free Wi-Fi in campus. 8.Ph.D. Increments. 9.Subsidized canteen facility 10.Health Checkup Camp 11.Free Book facility</p>	<p>1.Employee Provident Fund(EPF). 2. Insurance Scheme. 3. MaternityLeaves to female staff. 4. Advance against salary facility. 5. Centralize reprographic facility(Xerox) for staff. 6.Facility of free Wi-Fi in campus. 7. Early going and late coming facility. 8. Subsidized canteen facility 9. Free transportation/Bus Facility 10.Health check up camp</p>	<p>1.Special coaching scheme 2.Personality development scheme 4.Students scholarship 5.Installment facility for payment of tuition fees 6.Free transportation/Bus Facility 7.Concession in tuition fees for economically weaker students 8.Felicitation of achievers 9.Organization of annual sports ,cultural event(ULLHAS) 10.Promote students for participation in technical competitions organized by IITs and NITs 11.Extended hour of library for students 12.Free Book facility for students 13.Students health check up camp</p>

14.Book bank scheme  
15.Insurance scheme  
16.Free Food facility to economically weaker students  
17.Free Hostel facility

#### 6.4 – Financial Management and Resource Mobilization

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

Audits in the Institute are conducted with the objective of fact findings. The accounts of the college are maintained and audited regularly by the Chartered Accountant. The institution has computerized its financial management system and all the accounts are managed by the tally software. All the details of income and expenditure are stored with the help of tally software. All the financial statements and pay sheets are prepared using the computer. The C.A undertakes internal audit. The financial documents and receipts are produced for scrutiny and all that is needful regarding the maintenance of accounts is completed within stipulated period of time.

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
M/S Nagarare Contruction Company	50000	Consultancy Services provided by Civil Engineering Department
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

300000

#### 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	Yes	Ramdev Baba College of Engineering Nagpur	Yes	Academic Audit Committee
Administrative	Yes	Rathi Kothari Associate Nagpur	Yes	Administrative Audit Committee

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

Teacher association institute has a strong report with parents at various levels of communication like by cell phone, what's up media etc. Periodical communication exists between students, teachers and parents for sharing information about various activities held in the college. Parent teacher meet is organized by each department once in a semester to discuss student's academic performance, University results, attendance, remedial classes online /offline campus recruitment drive and other related issues.

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

Development programs for support staff development training program are organized by various departments every year. List of some of the programs organized is given below.

1. Department of computer science engineering has organized a day long training program on "Excel Word" for supporting staff on 19-10-2018
2. One day library awareness for non-teaching staff and group discussion on 21-11-2018
3. One day training program on new practical setup demonstration on 26-02-2019
4. One day workshop on "Roles and Responsibility at work place" organized by Electrical Engineering department on 24-04-2019

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

The NAAC peer team had made some recommendations. The institute is taking efforts for initiatives to comply with the recommendations. The following are some recommendations and measures taken by the institute.

1. As a part of course enrichment, the college conducts for guest lecture and seminars with imminent invitees till 30/11/2018 during peer team visit, now till 31/4/2019 the institute had organized 21 numbers of implants training programs, ten numbers of expert lectures by industry resource person and ten numbers of industry visit. Eminent personalities from the various fields have conducted guest lectures in all the four courses.

(a) The institute has a well-planned feedback mechanism. Every department conducts feedback process from the various stake holders like students, parents, alumni and employee by end of the every semester in different platform such as academic, co-curricular, extra-curricular infrastructure, facilities, sports etc. The suggestion from the various stake holders are formulated practice formal and placed in the IQAC meeting at the beginning session and corrective measures have been initiated and implemented in all the beginning of the new session.

(b) Need to focus on experimental learning and student encourage to take online lecture through NPTEL videos. The institute has improved reasonably well in experimental learning methods. The various department organized total 10 numbers industrial visit, one total station survey camp for Civil engineering nearby Nagpur. Total 50 final year students from mechanical and electrical engineering participated summer internship. 21 numbers of students from electrical and mechanical engineering look in plant industrial training during winter and summer vacations. Academic calendar is equipped with one NPTEL video lecture per week is allotted for all four courses. The faculty members of all department conduct at least one online lecture per week through NPTEL videos. The concern faculty member keep the record of all such online lectures in his/her course file for future reference.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	Yes
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
2018	Administrative Training Programme on Microsoft Word and Microsoft	15/11/2018	15/11/2018	15/11/2018	25

	Excel for non teaching staff				
2018	Administrative Training Programme on Microsoft Powerpoint for non teaching staff.	20/11/2018	20/11/2018	20/11/2018	20
2018	Internal Academic Audit 2018-19 (odd sem)	15/12/2018	15/12/2018	18/12/2018	23
2019	Language Lab Software	03/02/2019	03/02/2019	04/02/2019	72
2019	Internal Academic Audit 2018-19 (even sem)	21/05/2019	21/05/2019	24/05/2019	80
2019	Internal Administrative Audit 2018-19	25/05/2019	25/05/2019	31/05/2019	75
No file uploaded.					

## 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
Drama on social issues	25/08/2018	25/08/2018	12	14
Group discussion on Gender equality	16/10/2018	16/10/2018	45	56
Womanista which include various competitions like Mehendi, Rangoli, Tatoonmaking based on theme Women Empowerment, Girl education	12/05/2018	12/05/2018	93	0

and Womens contribution to society				
NSS Committee Organized Swachhata Abhiyan	02/08/2019	02/08/2019	85	102
Guest Lecture on Women Health issues	03/08/2019	03/08/2019	127	0
Health checkup camp	04/03/2019	06/03/2019	206	110

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

Percentage of power requirement of the University met by the renewable energy sources The Institute campus is clean and green with well maintained trees, lawns, buses ETC.The Building Infrastructure is ultramodern and best designed. The institute has installed 20 K.W solar power plant in the premises, The Rainwater harvesting project has been implemented. Waste paper is sold to vendors for recycling. Use of Tobacco and Cigarettes are strictly prohibited in the college.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Scribes for examination	Yes	1
Rest Rooms	Yes	1

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
2018	1	Nil	15/06/2018	7	Induction Program for 1st year Students	relevance about the engineering education and its importance in the domain of industrial need	55
2018	Nil	1	02/07/2018	1	Tree Plantation Day. (Contribution	350 trees were planted	175

					to local Community )	including medicinal plants	
2018	1	Nill	14/07/2018	1	One day training program for faculties on approaches to teaching and learning skills.	teaching and learning skills.	45
2018	1	Nill	08/11/2018	1	Industrial Visit KEC Tower, Butibori, Nagpur.	design and layout of transmission lines and its 132 KV tower	97
2018	Nill	Nill	09/01/2018	1	One day workshop on "Network Planning" organized by Department of Computer Science Engineering by Prabuddha Sanyal Sr. Network Engineer.	Computer network and its planning	48
2018	1	Nill	11/08/2018	2	Health checkup camp	General health check up camp for students and staff	320
2018	Nill	1	12/12/2018	1	Donation of old bed sheets Blankets and Winter wear	bed sheets were distributed to needy and poor peoples during winter season	56

2018	Nil	1	17/12/2018	1	Survey Camp organized by Department of Civil Engineering	surveying of field site using total station	163
2019	1	1	26/01/2019	1	Republic day celebration	celebration of republic day and its National significance	250
2019	1	Nil	02/02/2019	1	In Plant Industrial Training Super Thermal Power Station, Bhdravati, Chandrapur	Practical working of super thermal power station	48

[View File](#)

#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Ethics Code 2018	07/10/2018	Ethics Code 2018 is a hand book provided to the first year inducted students. The complete scheme of study during 4 years of study is given which includes rules and regulations, Academic Calendar, Exam Calendar, Placements, Infrastructure, Scholarships, Extra Curricular, Facilities.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Tree Plantation Day. (Contribution to local Community)	02/07/2018	02/07/2018	175
Health checkup camp	11/08/2018	15/08/2018	320
Donation of old bed sheets Blankets	12/12/2018	12/12/2018	45



Winter wear			
National level Project Competition organized by Department of Electrical Engineering	16/02/2019	16/02/2019	55
Two days FDP on Artificial Intelligence and Neural Network	03/02/2019	03/02/2019	48
Guest lecture for all students on "Motivation" conducted by Dr. Ajinkya Narnaware.	04/08/2019	04/08/2019	215
<a href="#">View File</a>			

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

- Classrooms are provided with large size windows so that natural light are sufficient instead of using the electric lights.
- Solar power of 20 K.W is installed in the campus.
- The Institute has installed a rain water harvesting system at the top floor of main building of college .
- Students and Faculty members organizes Tree Plantation Program every year in the campus and at Satnavri village.
- World environment day celebration.
- The institute has plastic free campus.
- Lights and fans are switched off when not required.

#### 7.2 – Best Practices

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

Best Practices (1): Title of the practice: Soft skill training Objectives: 1) To enhance the quality of one's life 2) To develop core competencies required for the industry. 3) Budding engineers sometimes portrays excellent theoretical knowledge but lack of basic analytical skills required for job. In view of above, soft skills or employability skill training are necessary for keeping and doing well in a job. it aims at transforming fresh graduates into readily employable professionals. 4) Practices: During the year various programs such as soft skill training, hands on training in industries , industry visits, mock interview drives, were conducted. All these programs are meticulously planned and scheduled from July to march. Soft skill training of each 20 hours module for first year and second year students (Including all courses) to develop the overall soft skills of the students. Department of training and placement had signed 08 MOU's during 2018-2019 with the core and IT industries to support students of third and final year of all courses pertaining to summer/ winter internship and to seek in plant industrial trainings during summer and winter vacations. 5) Evidence of success: Impact of the experimental learning situation of training had a noticeable positive effect on various dimensions of personality. Best Practice: (2): Title of the practice: Participative Learning Objectives of the Practice: Taking teaching and learning beyond classrooms. (1) In conventional classrooms teachers delivers lecture through a planned procedure which includes preparation of teaching plan, Notes, PPT's etc. However students losses their concentration in a few minutes. Though they presents physically in the class but diverted mentally due to lack of concentration. Thus conventional teaching- learning classroom method is insufficient. On the other hand participative learning would promote self learning and help the student to gain knowledge at their own learning. The

Institute focuses on enhancing learning process through student's centric teaching-learning process as students are the important stake holders of the system. (2) Participative learning implementation process: This includes group discussion, Practical conduction in groups, Projects in the class room in presence of project guide, faculty members and HOD's. Through participative learning students can interact with each other and share their views, thoughts, and experiences to others. (3) Field or Experimental learning: this type of learning happens through industrial visits, winter-summer internships, in plant industrial training programs, Real world examples. Through this learning students also get exposure to the latest technology used by industry. (4) Problem solving learning implementation methods: Tutorials classes are useful for enhancing the problem solving and analytical skills of the students. (5) Evidence of success: The institute has encouraged the students to go beyond class room teaching-learning process and present themselves their talent in the form of poster and project competition held at other organizations. Team work and leadership qualities of the students are enhanced and are seen from their involvement in the organizational activities .A total of 10 teachers used the method of case studies in which 150students participated. A total 35 teachers used the method of group discussions in which 220 students participated. A total 52 teachers used the method of percolation by students in which 350 students participated. A total 25 teachers used the method of field internship in which 115 students participated. 27 students participated for various competitions at reputed institutes because of participative learning at the institute.

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

<https://nietm.in/wp-content/uploads/2023/05/7.2.1-A.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

Area: Academics: the institute works hard in particular towards improvement of tribal young students through technical education, innovative training of life skills and job skills for Pioneering the entry of tribal students in technological domain and job domain and also rural and economically backward students in large. The institute follows a very well planned and rigorous academic delivery methodology both in theory and practical's for its students starting from first year itself to final year students of all courses like electrical, mechanical , civil, computer science students. The institute has a good record of results particularly in final year/end semester university examinations. The institute not only meticulously adhering the university system of academic but is well focused and monitored by academic monitoring committee of all departments throughout the semester. The institute is committed towards overall development of its students to prepare them highly competent in the professional world. All the department frequently organize various seminars, workshops, guest lecturers of industry resource persons, industry visits, winter/summer internship and in plant industry training which are aiding in the professional growth of students. The role of the faculty in this institute is to interact, train, facilitate and mentor the students in all respect. Furthermore, the feedback mechanism followed by the institute not only aids in continuous improvement of the program but also helps accomplish institutes mission. The average passing result of the final year in the university examination is above 85. The institute has performed consistently well in the semester examinations.

Provide the weblink of the institution

<https://nietm.in/wp-content/uploads/2023/05/7.3.1A.pdf>

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

- To encourage students for GATE, GRE for higher studies
- To promote the faculty members to publish more number of research publications in UGC notified journals.
- To encourage the faculty members to participate in STTP, Conference, Symposia in other reputed organizations.
- To motivate the faculty members to register for PhD programs.