



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

NAGPUR INSTITUTE OF TECHNOLOGY, NAGPUR

SURVEY NO. 13/2, MAHURZARI, NEAR FETARI, KATOL ROAD,
NAGPUR-441501
441501
www.nit.edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Nagpur Institute of Technology is a brand name in Central India for conveying Quality Education that gathers International Standards. It is one of the rapid budding technological institutes of elevated status in the region and is one of the Top Engineering Colleges in Nagpur. This institute is very well known for its farsighted management, full-fledged and marked guidance, superior enthusiastic faculty, state-of-the-art infrastructure, towering academic principles, stringent academic restraint, outstanding co-curricular and extracurricular bustles and much endowed scholars. The college places exceptional and unique prominence interrelated to the expansion of the students such as all round persona progress, option of international revelation at UG echelon, temperament and proficiency edifice, industrial training and industrial projects. Nagpur Institute of Technology was established in 2008 and is a self-financed institution affiliated to RTM Nagpur University and approved by All Indian Council for Technical Education (AICTE), New Delhi and Government of Maharashtra and Directorate of Technical Education (DTE), Mumbai. It is extended over extensive 10 acres of abundant foliage offering the ideal atmosphere for detection of academic superiority. It is premeditated with an enthusiastic eye for facet, submitting the excellent education environment which comprises large, spacious, economically designed Classrooms, Library with latest Books and Journals, a Seminar Hall, State of Art IT Centre and an aesthetically intended Cafeteria, Sports Field, Workshop, Staff Rooms and much more.

The Academics is backed up with 5 Undergraduate programmes. It has active NPTEL local chapter of IIT Madras wherein students and faculty members have successfully completed the certifications. Also, it has an association with IIT Powai through e-Yantra lab. It has 14 MoUs with prominent Industries and Organizations of repute. It has signed an MoU with Huawei Telecommunications (India) Pvt Ltd wherein the HCNA certification programmes are run by the Institute. It got GOLD ranking in the AICTE-CII Survey of Industry linked Technical Institutions of 2018. The T&P Department of NIT implements and runs many training and technical Skill Development programmes for Campus Recruitment. The department also takes initiatives to make students aware about the current trends and Industry expectations to make them ready for the industry.

Vision

Vision:

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

Mission

Mission:

- To provide quality technical education to meet the requirements of industries and society.
- To equip students with need based technical skills through continual improvements in Teaching Learning processes and research activities.

- To inculcate ethical values for overall holistic development of students.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Mix of young, dynamic and experienced faculty members.
- Team Work within staff.
- Student-centric teaching-learning.
- Good number of professional and societal activities.
- Good entrepreneurship support.
- Wi-Fi campus, Internet, Well equipped laboratories and Infrastructure.
- Transparent and good governance.
- Strong bonding with stakeholders.
- NPTEL courses with IIT Madras.
- UG Project Evaluation by Industry Persons.

Institutional Weakness

- Students with lack of focus.
- Lot many distractions for youngsters.
- Yet Nagpur is not having prominent industry.

Institutional Opportunity

- Exchanges with foreign universities.
- Industry based courses.
- Skill Enhancements with industry.
- Good bonding with industry so all future programmes and courses with industry.
- New trends in multidisciplinary professional education and new teaching methods.
- Possibility of utilizing e-learning and distance education.
- The availability of research grants from Government, research agencies
- Faculty Sabbaticals.

Institutional Challenge

- Maintaining high percentage of attendance of students.
- Placements in core industries

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institute is non-autonomous and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University (RTMNU). It adopts the curriculum designed and developed by University. Some of the faculty members of the institute were actively involved in framing the curriculum of the University. Many faculty members of the institute are also involved in various bodies of the University and other autonomous colleges as Board of Studies (BoS) members. Students are benefitted by the Choice Based Credit System (CBCS) as it is provided in the syllabus. 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 has collected and analyzed feedback on curriculum in structured format obtained from various stakeholders such as students, alumni, teachers, employers and parents etc. The institute has taken corrective action in view of up-gradations of the syllabi and conveyed the suggestions to the Principal.

Teaching-learning and Evaluation

The Institute enjoys goodwill amongst public & society and has very good academic results. The admissions are done strictly on Merit basis in transparent manner under Centralized Admission Process (CAP). The admissions are from varied States and there is ample diversity. Students are admitted from the reserved categories also. Institute organizes orientation programme to give information about various processes such as scholarships, academic processes and compliances and conducts campus tour and then an Induction program wherein various hands on workshops/competitions are organized for the first year students. After the admissions, college assesses the learning levels through the Class Test (CT) and Mid Sessional Test (MST). 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. Management Information System (MIS) software “SACK-INFO” is functional for all Teaching-Learning planning and implementation processes. Students are evaluated continuously throughout the academic session.

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences. 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 class rooms, Virtual labs 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 institute has well qualified and dedicated faculty. There are faculty members from other states also. The academic practices revolve around quotient of “Innovation and Creativity” wherein newer teaching learning methodologies are used. 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. The teaching learning process follows Outcome Based Education (OBE). Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are well drafted and are well attained.

Research, Innovations and Extension

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. In concern to research, some faculties are PhD Supervisor, M.E. by research supervisor and recognized PG teacher. 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 institution is also actively involved in extension activities to help society by its services. The college has units of NSS and a contingent of NCC and Rotaract club through which Institute renders social and community services. Besides organizing blood donation camps, environmental awareness programs and helping in disaster management, the Institute has adopted a village namely Mahurzari for five years and another village is under survey for adoption. Institute got the recognition for extension activities. Students are supported for the industry visits and internship. 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-2018.

Infrastructure and Learning Resources

The Institution has well equipped laboratories, class rooms, tutorial rooms, library, seminar hall, play ground, sufficient number of computers, etc. for teaching learning processes. The infrastructure includes 20 classrooms, 05 tutorial rooms 38 laboratories, common workshop, central library, seminar hall, open ground for stage programmes, canteen facility and playground, sick room, T & P Cell, girls common room, boys common room. Every department has dedicated laboratories and classrooms. There are separate tutorial rooms wherein classes are conducted for specific subjects. The activities which require large gathering like placement talks, expert talks, awareness programs, interactions are arranged at state of art seminar hall equipped with audio visual systems. The ambience of these facilities is well maintained by housekeeping staff. Resources are shared across departments whenever needed. Institute has 20 ICT Class rooms and 1 ICT enabled seminar hall. The campus is WiFi enabled with 358 computers in LAN connection. Institute practices optimal utilization of these resources by conducting various events. These facilities suffice the ICT based teaching learning methodologies of the Institute which includes online contents, videos etc. 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). It consists of Acquisition, Catalogue, Circulation, OPAC and Serial Control modules. Library is having a collection of total 20683 books belonging to the course run by the college. Apart from this library is having book bank facility for backward students, subscription to national journals, CDs, Hard copy of projects reports, NPTEL video lectures. The Institute is having remote access to e-resources of the library which is done by DELNET. Institute has sufficient budget allocation for maintenance of physical and academic support facilities. Institute has established procedures for maintenance of physical and academic support facilities.

Student Support and Progression

Most of the students are benefited by the scholarship and freship from Government of India and Government of Maharashtra. They are also supported by the scholarship and freship from different NGOs, in particular, Schneider Electric India Foundation Scholars, Bagalore. Institute provides the scope of guidance for

competitive examination, e.g. GATE. It is quite evident from the achievements of the students. Apart from this, personal attention is given to the student through counseling. Institute organizes various programmes related to soft skill, value added courses, workshops, trainings to bridge the gap between industry and academia. Language lab exists in campus. Add on activities includes the Yoga camp, personality development, etc. Institute has well established system which comprises of various committees to address different issues of the students, e.g. examination grievances, sexual harassment, ragging, etc. T&P department regularly organizes or arranges the programme to increase the placement and for promoting the students for higher studies. Due to the friendly and accessible environment with the facilities, student brought the laurels to the Institute in sports and other activities. The most prominent is the entrepreneurship recognition. Students are always supported to contribute in teams. The best example of that is the active participation of students in various committees, council, forums, etc. Student Representative Council in the Institute is vibrant and dynamic. Students are always active in the sports and cultural activities. Alumni Association exists in Institute, but, yet to register. Still, it is vibrant and contributed through the book donations and a few financial supports.

Governance, Leadership and Management

The governance of the institution is reflective of an effective leadership which is in tune with the Vision and Mission of the Institute. The Vision of the Institute is “Service to Society by creating Technical and Skilled manpower through Value based Technical Education”. In line with this the Mission is focusing on providing quality technical education to meet the requirements of industries and societies, equipping students with need based technical skills and inculcating ethical values. All the processes and practices of the Institute are mapped with Vision and Mission and are in sync. The Institute practices decentralization and participative management in all of its processes and practices. Various cells/bodies/committees involve participation of staff and students to manage various institutional activities. Perspective/Strategic plan is prepared looking towards the focus and initiatives of the Institute. The review of the same is taken at suitable instances. It has a meticulous organizational structure to plan, manage and execute various functioning of administrative and academic processes. Various bodies/cells and committees are formulated that constitutes the organization structure. There is involvement of Management representatives, external experts, in-house entities in the Organization structure. The Institute has effective welfare measures for teaching and non-teaching staff which is helping to create cordial ambience. Institute has well designed Performance Appraisal system. It is implemented with the help of Performance Based Appraisal System (PBAS) which evaluates overall performance. Faculty and Staff members fill the PBAS at the end of every semester. Institute conducts internal and external financial audits regularly. The finance operations are transparent. There are well planned strategies in concern with mobilization of funds and the optimal utilization of resources. In order to institutionalize the quality assurance strategies and processes, Internal Quality Assurance Cell (IQAC) has been setup. IQAC reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals. There is involvement of external experts in IQAC along with internal entities.

Institutional Values and Best Practices

Institute shows gender sensitivity in providing facilities such as Safety and Security, Counseling, and Common Rooms. Counseling of students is carried out by various committees and activities such as Women Cell, Internal Complaint Committee, Grievance redressal committee, Teacher-Guardian (TG) Scheme. It is following Waste Management steps which include Solid waste management, Liquid waste management, E-waste management. Rainwater harvesting is used for collecting and storing rainwater from rooftops, the land surface using techniques such as jars and pots as well as underground checks. Rooftop water harvesting and

Surface runoff water harvesting is also used.

Institute is emphasizing on Green Practices by means of Bicycles, Public Transport, Pedestrian friendly roads, Plastic-free campus, Paperless office, Green landscaping with trees and plants, use of eco friendly Ganesh idols (without POP). Institute organizes national festivals and birth / death anniversaries of the great Indian personalities which include- Independence Day and Republic Day, Rashtriya Ekta Diwas, Constitution Day, Shahid Diwas, Surgical Strike Day, Rashtrasant Tukadoji Maharaj Death Anniversary, Birth and Death anniversaries, Teacher's Day, Engineer's day, Gandhi Jayanti. The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions. The Institute is running best practices like **Campus Recruitment Training** exclusively designed for the students in order to make them ready for placements. The practice has resulted in increasing the placements by 30%. Another best practice is Teacher Guardian (TG) scheme which is enhancing academic performance of students through personal counseling and issue resolving. 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. Value inculcation among the students through experiential learning is the unique feature of the Institute. Also it is promoting Personality Development through Sports and Extra Curricular Activities. 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.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	NAGPUR INSTITUTE OF TECHNOLOGY, NAGPUR
Address	Survey No. 13/2, Mahurzari, Near Fetari, Katol Road, Nagpur-441501
City	Nagpur
State	Maharashtra
Pin	441501
Website	www.nit.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Professor	Amol Y. Deshmukh	091-8275010559	9881711787	0712-202305 5	aydeshmukh@nit.e du.in
Principal	Nileshsingh V. Thakur	091-8275010512	9922941209	0712-242127 7	principal@nit.edu.i n

Status of the Institution	
Institution Status	Self Financing and Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	30-06-2008

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Maharashtra	The Rashtrasant Tukadoji Maharaj Nagpur University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-04-2018	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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Recognitions

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Survey No. 13/2, Mahurzari, Near Fetari, Katol Road, Nagpur-441501	Rural	10	13373

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Mechanical Engineering	48	HSC	English	120	61
UG	BE,Civil Engineering	48	HSC	English	60	42
UG	BE,Computer Science And Engineering	48	HSC	English	60	58
UG	BE,Information Technology	48	HSC	English	60	35
UG	BE,Electrical Engineering	48	HSC	English	60	35

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	9				17				52			
Recruited	1	0	0	1	0	0	0	0	15	7	0	22
Yet to Recruit	8				17				30			
Sanctioned by the Management/Society or Other Authorized Bodies	2				3				51			
Recruited	2	0	0	2	3	0	0	3	32	19	0	51
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				44
Recruited	41	3	0	44
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				36
Recruited	36	0	0	36
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	3	0	0	3	0	0	5	1	0	12
M.Phil.	0	0	0	0	0	0	1	1	0	2
PG	0	0	0	0	0	0	41	24	0	65

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
		UG	Male	851	50	0
	Female	465	16	0	0	481
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	83	102	128	141
	Female	70	85	60	70
	Others	0	0	0	0
ST	Male	6	4	12	13
	Female	3	6	5	6
	Others	0	0	0	0
OBC	Male	93	107	149	161
	Female	39	41	62	67
	Others	0	0	0	0
General	Male	43	48	83	65
	Female	17	20	31	19
	Others	0	0	0	0
Others	Male	31	39	37	52
	Female	16	22	20	20
	Others	0	0	0	0
Total		401	474	587	614

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 5	File Description	Document
	Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	9	9	9	9

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1404	1501	1508	1608	1533

File Description	Document
	View Document

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
252	297	310	266	273

File Description	Document
	View Document

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
385	231	354	213	287

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
92	99	126	122	118

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
115	126	126	122	118

File Description	Document
Institutional Data in Prescribed Format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 21

Number of computers

Response: 358

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
287.17	287.24	498.34	560.09	448.98

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Yes, 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) and Academic Coordinator 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 (Individual and/or 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) and/or Academic Coordinator 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, 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)/Academic Coordinator and the Principal to monitor the academic progress and to observe effective execution of the academic plan.

The Institute has Teacher Guardian (TG) scheme for personal and academic counseling of the students.

File Description	Document
Link for Additional Information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 4

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	4	0	0	0

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Details of the certificate/Diploma programs	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years**Response:** 45.54

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	15	8	8	8

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility**1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years****Response:** 2400

1.2.1.1 How many new courses are introduced within the last five years

Response: 120

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented**Response:** 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 5

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 34.23

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
752	935	278	327	253

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

1.3 Curriculum Enrichment

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

Response:

Institute is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU), Nagpur and follows the curriculum of RTMNU. There is no any course related to Gender in curriculum of RTMNU. So, Institute always tries to integrate cross cutting issues relevant to Gender.

Integrating cross cutting issues related to gender: Gender Equality

NIT is concerned for care and safety of the girl students as well as lady staff members. In view of this, the Institute used to arrange different programmes for girls and lady staff, like: Women's Day Celebration, Awareness programme; Expert/Guest talks, Seminars, Training, etc. where the speakers/experts are Police Officer, Gynecologist, Renowned Yoga Teacher, Karate Expert, etc. Different programmes are carried out, for example, 'Sexual harassment at workplace' and 'Relationship with peers and Cyber crime', to make them aware about their constitutional rules and rights; 'Personal health and hygiene, proper sanitization,

diet, nutrition', 'Health and Hygiene', to make them aware about their health issues; 'Self defense and health', to make them aware about their safety and security. Apart from these, to maintain the good culture, the Institute used to give flexibility to celebrate lady festivals, for example, 'Haldi-Kumkum' and 'Navratri celebration (9 Days 9 Colors)'. To acknowledge the efforts and exerts of Housekeeping Lady Staff, they were felicitated. To address the grievances, Institute has constituted 'Women Cell' and 'Internal Complaint Committee' where the girl students have the representation. Girl students also have the representation in 'Student Forums', 'Student Council', 'NSS Unit', 'Technical Committees', and 'Cultural Committees', etc. They are facilitated by providing Girls common room, medical room and Sanitary Napkin vending machine. The institution has deployed CCTV cameras at prominent places; also, the suggestion and complaint box is placed along with helpline numbers are displayed at major places. Every year, admission of girl students is increasing and they are contributing in promising way, and it is quite evident from the girl students' admission percentage of 42.25 for this year. All faculty and staff work hand in hand to make conducive work environment and maintain healthy relationships among each other. Institute always remain flexible for any type of suggestions or relaxations to make them feel happy, healthy, comfy and secured.

Courses in curriculum associated with Environment and Sustainability, Human Values and Professional Ethics:

Prominent Courses in Curriculum related to Environment and Sustainability are- Environmental Engineering, Environmental Studies, Non Conventional Energy Sources, Environmental Engineering-I, Environmental Engineering-II, Air Pollution and Solid Waste Management, Sustainable Resource Management in Civil Engineering, Watershed Management, Environmental Management System, Water and Waste Water Treatment, and Renewable Energy Systems, Environmental Engineering (Audit Course). Prominent Courses in Curriculum related to Human Values are- Communication Skills, Functional English, Communicative English and Technical Writing, Industrial Economics and Entrepreneurship Development, and Entrepreneurship Development. Prominent Courses in Curriculum related to Professional Ethics are- Ethical Sciences, Ethics in Information Technology, Cyber Security, Information and Cyber Security, and Digital Forensic.

Details of Courses is provided in Additional Information Link-

http://www.nit.edu.in/Naac/criterion_1/1.3.1-Courses%20List.pdf

File Description	Document
Any Additional Information	View Document
Link for Additional Information	View Document

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 13

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 13	
File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking field projects / internships	
Response: 44.8	
1.3.3.1 Number of students undertaking field projects or internships	
Response: 629	
File Description	Document
List of students enrolled	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

<p>1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise</p> <p>A. Any 4 of the above</p> <p>B. Any 3 of the above</p> <p>C. Any 2 of the above</p> <p>D. Any 1 of the above</p> <p>Response: C. Any 2 of the above</p>

File Description	Document
Any additional information	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

<p>1.4.2 Feedback processes of the institution may be classified as follows:</p> <p>A. Feedback collected, analysed and action taken and feedback available on website</p> <p>B. Feedback collected, analysed and action has been taken</p> <p>C. Feedback collected and analysed</p> <p>D. Feedback collected</p> <p>Response: B. Feedback collected, analysed and action has been taken</p>	
File Description	Document
Any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 4.02

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
66	68	78	52	38

File Description

Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 75.85

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
401	474	587	614	642

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
649	762	794	683	702

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per

applicable reservation policy during the last five years**Response:** 87.42

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
216	254	272	238	242

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

2.2 Catering to Student Diversity**2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners****Response:**

Every year, Institute used to organize Induction Programme for the first year admitted students along with their parents before commencement of their regular classes. This programme provides the information regarding facilities, faculty expertise, rules and regulations, do's and don'ts, examination scheme and the teaching-learning process. The Institute formulates the different sections/divisions based on the mix of diverse merits and engineering streams. Also, Institute takes care of prominent courses by increasing teaching load, to reach to the level of students, as they are switching to professional level. This provides a very impartial environment for the students to learn and study. In later stages, the levels of the students are identified based on the following parameters.

Based on the interaction of students, faculty judges the proficiency of students and provides the extra coaching. Regular attendance evaluation helps to identify the slow learners and accordingly, faculty acts and improvise the class attendance. Institute organizes various events to judge their talent and learning skills. Based on the performance in Class Test (CT), Mid Sessional Test (MST) and assignments, faculty identifies the student levels, and accordingly, faculty acts and tries to improve the performance of students. Later, performance in RTMNU examination, also, provides the scope to identify student levels. Institute is concerned about the advanced and slow learners and has implemented following strategies and processes.

For Advanced Learners:

- Special Interest Group (SIG) for students who have research interest.
- Support and guidance for participation at Local, Regional and National level Research competitions, design competitions, project competitions, sports events.

- Guidance on Entrepreneurship for students with entrepreneurial mindset.
- Felicitation of Class Toppers is a regular practice.
- Class representative is generally selected from toppers.
- Exhibiting willingness to work on independent projects.
- Support and guidance for participation in workshops, attending conferences / workshops / seminars organized in the parent institute or other nearby institutes.
- Extra Books facility from library.
- Support to identify good industry for Internship.
- Flexibility to go for individual/independent project work.
- Skill enhancement programmes and Training/Seminars.

For Slow Learners:

- Every semester, meeting and counseling sessions are conducted on one to one basis for students who get less marks so that they can improve their performance.
- Analysis of MST marks helps in identifying slow learners so that they can be given remedial teaching to improve their academic performance incrementally.
- Counseling of students who remain absent frequently is done.
- Counselor analyses that how the performance can be improved in subsequent semesters of the students who have been identified as weak in the previous semester.
- Students with high absenteeism and poor academic performance are being counseled by Class Teachers, HoDs, Dean Academics on monthly basis.
- Remedial Classes for these students.
- Extra lectures / Make-up classes for the Direct Second Year students.
- Performance of these students in RTMNU Examination is monitored to analyze their performance.

However, to have academic growth of every class and category of students, we don't differentiate amongst them.

File Description	Document
Link for Additional Information	View Document

2.2.2 Student - Full time teacher ratio

Response: 15.26

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

File Description	Document
Institutional data in prescribed format	View Document

2.3 Teaching- Learning Process

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

Response:

- CT, MST-1 and MST-2 are taken for judging the readiness of the preparation of respective subject for University Examination.
- OT-1 and OT-2 (Objective Test) are taken in view of preparation for Competitive Exam such as GATE.
- Tutorial Classes are conducted regularly to enhance problem solving skills of the students. In tutorials the most important question which is expected in university exam are taken and the similar type of questions are given to them for practice.
- Group Assignments are given to the students. 6 Assignment Groups are formed each of which are subdivided into further 4 sub-groups, 2 or 3 students are given to each subgroups so that the assignment questions are much not repeated. The Assignments with good handwriting are collected and used as answer key for University questions.
- Question Bank is provided to the student to get the idea about the framing of questions as per topic in the university.
- In Laboratories, Eight Practical of respective subject along with two Virtual LAB practical are conducted to get knowledge of such practical which are not available in the laboratory.
- Independent learning is encouraged through NPTEL videos and seminars.
- During the academics, Mini-Projects and final year projects are given to the students and they are guided by both faculty and Industry/Research personnel. Seminars are taken on the project, also they are motivated to participate in various project competitions held in different colleges.
- For increasing the practical knowledge Internship programs alliance with various industries as well as various training programs are arranged for the students.
- Guest lectures by eminent persons from Industries, government organizations, alumni are arranged. One or two day workshops and seminars are also arranged frequently.
- Industrial Tours and Visits are arranged for the students. Students can observe and learn as to how theoretical concepts are put into action, thereby aiding their practical learning. Industrial Visits offer a great source to gain Practical knowledge. This gives an opportunity to the students to know about real world applications of the courses being studied by them.
- The institute has Special Interest Group (SIG) associated with recent trends in technologies. The students who are interested to do the innovations and research, they can choose relevant group and contribute.
- The framing of questions in Assignments, Tutorials, MST-1 and MST-2, and Question Bank is as per Blooms Taxonomy Literature for outcome based learning.
- Faculty and students are encouraged to use NPTEL and other open source digital courses.
- Group Discussions for students are conducted to improve the confidence level, oratory skills and knowledge of the student.
- Students have access to e-journals and e-books.

- The institution has MoUs with industries and other institutes. This helps in improving the employability skills of the students.
- Institute has Rotract club and NSS Unit.
- Student used to participate in Co-curricular and extra-curricular activities.

Thus, all these contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

File Description	Document
Link for Additional Information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 92

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 16.52

2.3.3.1 Number of mentors

Response: 85

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Following steps are taken by the college to create a culture of instilling and nurturing creativity and

scientific temper among learners.

- **Group Assignments:** Group assignments are given to the group of students. Through this, the students used to learn to contribute through discussions. This is helpful to increase the capability to work in team.
- **Project and Seminar:** Project exhibition for the final year projects is organized wherein industry persons and other stakeholders, visits the Institute for critical analysis of final year projects. Faculty assigns the topic beyond curriculum and of current relevance to students for presentation in the class. In first year, students delivered presentation related to respective subjects. For the final year project, group of 2 to 3 students deliver presentation on their project topic. Three progress seminars are conducted on the project. More hands on practice and sessions on Social Innovations.
- **Computer Assisted Learning:** The students are encouraged to learn about the online sources for simulations, design, etc. Students used to refer online sources for learning and practical implementation.
- **Industrial Visits / Field Visits:** Every department organizes visit of students to relevant industries to expose them to industrial practices. The students of Civil Engineering department pay the field visits to various sites to study the prevailing or expected environmental problems there and suggest the solutions. Students actively take part in all the above activities and learn the courses with fun. Due recognition and appreciation for the innovation in teaching by a teacher is done during Faculty meetings.
- **Guest lecture/Expert Talks/Workshops, etc.:** Experts from industry and academia deliver the expert talks. Alumni pursuing higher studies in India and abroad are invited to interact with students and to share their experience to motivate students. Teacher organizes the workshops on recent trends or course related areas.
- **Participation in co-curricular activities:** College encourages students to participate in co-curricular activities organized in the parent institute or any other institute namely paper presentation, project competition, Technical Quiz, Poster presentation etc. This helps students to develop self learning attitude, analytical skills, communication skills and creativity.

NPTEL: Basic and add on knowledge is increased by registering and completing NPTEL courses. Students are motivated to participate in NPTEL courses.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 92.22

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 4.24

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	7	4	3	5

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document
Any additional information	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 7.18

2.4.3.1 Total experience of full-time teachers

Response: 661

File Description	Document
Any additional information	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 0

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 5.11

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	6	7	6	6

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

Internal examinations:

- The internal exam papers are designed based on Blooms taxonomy. All question papers list the COs for which the examination is conducted.
- Class test is conducted after completion of a unit to evaluate the performance of students. Two class tests (CT1 and CT2) are conducted before the Sessional examinations (MST1 and MST2) respectively.
- Sessional examinations (MST1 and MST2) are conducted twice a semester based on two units followed by objective tests (OT1 and OT2) which is having multiple choice questions (MCQ type) and Numerical answer type questions which are helpful for GATE examination and numerous

competitive exams.

- In order to make the students familiar with RTMNU examination pattern a pre university test (PUT) is conducted based on complete syllabus. PUT mainly is a descriptive examination which tests the concept understanding, detailed mathematical analysis and applications.
- If students are absent or secure less marks they are given opportunities to improve their performance in Internal Evaluation through Re-PUT.

Internal marks scheme:

- Semester attendance of the students is also taken into consideration for calculation of internal assessment marks.
- 'Six' Assignments (A1, A2, A3, A4, A5, and A6) are conducted based on each unit given in the syllabus (RTMNU). Different Group of five students are formed and each group solves two questions from each assignment which inculcate the habit of group discussion among students and improves team work. Evaluations of assignments are done.
- Due credit is given to students participation in extracurricular activities recorded in assignment A7 which includes paper presentation, model making competition, any technical events, participation in SIG, social activities etc.
- Tutorials are conducted which covers the practical aspect of respective subject and are also evaluated.

Practicals and Project evaluation:

- Experiments based on virtual labs and syllabus contents are conducted and evaluation of each experiment is done in the succeeding turn of laboratory work.
- The case studies, industrial visits, mini and major Project work are assessed by seminars delivered by students on a regular basis using power point presentations along with viva-voce.
- After result finalization, CO, PO, PSO attainment is calculated by faculty members.

Student centric learning:

- Special interest group (SIG) of students is formed for acquiring the deep knowledge of specific area which acts as a bridge between the theoretical and practical knowledge required by the industries.
- Student centric learning practices are carried through Group Discussions, Seminars, projects, Paper Presentation, interactive practical sessions, expert lectures, NPTEL lectures, Extra Curricular activities etc.

Feedback system:

- Interactive teaching with time to time feedback is also practiced. At the end of semester, students' feedback for each course is taken, analyzed and discussed in the departmental meeting.
- Based on the students feedback, requisite changes are incorporated in the teaching learning process where good performance of faculty is appreciated and faculty with below par performance are instructed to improve their performance by taking suitable measures.

File Description	Document
Link for Additional Information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

- The session opening letter is given to students and parents. The important instructions are given to them. The academic calendar is displayed on notice-boards and is displayed on website also.
- The institution organizes orientation program in which students and faculty members are acquainted with the rules and regulations of the affiliating university, examinations, detailed information about evaluation process, extra-curricular activities etc.
- The important instructions pertaining to examination activities criteria for internal marks etc. is given through Teacher Guardians.
- Students are clearly made aware of the eligibility conditions required to appear in the RTMNU Examination. In each course, total marks are divided into internal marks and external Marks. For theory courses internal marks are 20% and External (RTMNU) marks are 80%. For practical internal marks are 25% and External marks are 25%.
- The evaluation process is made known to the stakeholders during the orientation programme by the Dean (Academics) when fresher join the College. Periodically, HoDs and faculties of respective departments orient their students regarding the same in the classes.
- The students are informed about the conduction of internal exams, assignments, tutorial classes, technical activities which are also a part of internal assessment.
- The schedule of all internal exams like CT, MST, OT, and PUT are communicated in advance through college Academic calendar.
- The results of MST, CT, OT and PUT are displayed on Notice Board within a week from its conduction.
- The answer sheets are shown to students and corrections, if any, are incorporated in final results.
- There is well designed mechanism of students grievances, if any.
- Practical assessment is also done regularly. The experiment performance and viva-voce is completed on a same day.
- Review of project work is taken regularly.
- The criterion/policy for awarding internal marks is very transparent and is known by students and faculty in advance.
- Theory subject internal marks are evaluated as- Attendance (A) (for subjects with tutorial) / Attendance (A) (for subjects without tutorial): 06 Marks / 08 Marks, Tutorial (T): 02 Marks, Class tests 1 (CT1)/ Class tests 2 CT2): 02 Marks, Objective Test 1 (OT1) / Objective Test 2 (OT2): 02 Marks, Mid Sessional Terminal 1 (MST 1) / Mid Sessional Terminal 2 (MST 2) / Pre university test (PUT) / Assignments (A1, A2, A3, A4, A5, A6, A7): 08 Marks, TOTAL MARKS: 20 Marks.
- Practical Internal marks are evaluated as- Attendance (A): 05 Marks, Performance (P): 10 Marks, Practical Journal submission (J): 05 Marks, Viva-voce (V): 05 Marks, TOTAL MARKS: 25 Marks.

File Description	Document
Link for Additional Information	View Document

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

Response:

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

Institute level:

- Students are made aware of the assessment methods at the beginning of the semester.
- The assessed answer sheets are circulated to students in class-room by the respective subject faculty along with the discussion of correct answers.
- Faculty discusses about Lacunae in performance with students to enable them to improve their learning and overcome the shortcomings.
- In case of any discrepancy, they are advised to bring the matter to the notice of concerned subject faculty and get it solved. The matter can always be discussed with mentor teacher, class-in-charge or HoD if remains unsolved at the subject faculty level. Hence, the process becomes very efficient. However, student can always approach to the Principal for his/her grievance and all authorities take an immediate action whenever required.
- As per R.T.M. Nagpur University directives, all internal marks are to be submitted on-line within a stipulated time frame. Thus, the process of sorting out grievance becomes time-bound.

University level:

- Paper setting, exam schedule declaration, conduction and evaluation is done by RTMNU.
- In case of grievances related to form submission, issue of admission card or any other the matter is solved by the faculty in charge of university examination related matters, HoD and concerned clerk of the college.
- In case of grievances related to university question papers the same are communicated to university through the controller of examination within stipulated time.
- After declaration of results by the University, students can apply for either photo copy of answer sheets, which are provided by the University on payment of fees or directly for reassessment.
- Student having grievance after receiving photo copy of answer sheet, can apply for revaluation to the University.

File Description	Document
Link for Additional Information	View Document

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

- Dean (Academics) prepares the draft of academic calendar for each semester in consultation with Principal and HoDs.
- The tentative schedule is first distributed in Principals meeting along with Dean (Academics) 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 Teaching plan, indicating the topics to be cover lecture wise along with number of lectures required for completion of topic for each and every subject, which is prepared by the faculty before the commencement of the semester. The detailed teaching plan also includes the text books, reference books and the objectives of the respective subject and it is duly approved after careful examination by the Head of the Department.
- Faculty members update their existing course files which consist of academic calendar (RTMNU and college), time table (master and personal), Syllabus and scheme, list of text and reference books, teaching plan, subject progress chart, previous years question papers, Question bank unit wise, Books available in central library, subject notes, Internal exams question papers and marks.
- Monthly Attendance is monitored and students with poor attendance are communicated accordingly by class in charge or teacher guardian.
- The departments conduct regular meetings such as meeting of HoD with class representative (CR) of each semester every 15 days, meeting with all the students through TGM scheme every week and also meet their parents once a semester through PTM. The student progress is been informed to their parents in PTM.
- Group assignments are given and tutorials are conducted time to time for better understanding of the subject which encourages the independent learning.
- The curriculum takes care of the communication skills by conducting practical in

Language lab in first year, "Functional English" subject in the higher semester.

- Unit wise question bank as per the university pattern is prepared by the faculty and is made available to the students before the commencement of internal exams.
- 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.
- Re-PUT is conducted for the absent students or students securing less marks during PUT.
- Subject progress charts are maintained and verified by the subject faculty and HoD.
- Revision classes are conducted after the MST and remedial classes are conducted towards the end of the course.
- Submission is done within the stipulated period and term work marks are allotted based on continuous assessment.
- Examinations are conducted as per University pattern.
- Result analysis is carried out after declaration of the University result.
- The institution organizes value added courses and personality development programs to improve the behavioral aspects, independent learning, communication skills, etc.

File Description	Document
Link for Additional Information	View Document

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 on website and communicated to teachers and students

Response:

Yes, The Institute has implemented Outcome Based Education (OBE) approach wherein the Program Specific Objectives (PSOs), Program Outcomes (POs) for each program offered by the Institute and the Course Outcomes (COs) for every course taught are established well in advance. They are aligned with the vision statements of the Institute and the departments and program specific criteria of internationally known professional societies such as ASME, ASCE, IEEE.

The Institute has clearly stated the learning objectives in terms of Program Specific Objectives (PSOs) and learning outcomes (in term of Program Outcomes (POs)). POs define the capabilities of the students of a program are expected to achieve at the time of graduation.

PSOs, POs and COs are made available to respective stakeholders.

- The faculty explains the outcomes expected from the students in the orientation classes / beginning lecture at every semester.
- The outcomes expected from the students for the programme are displayed at prominent places in the department.
- Both PSOs and POs are displayed at
 - College website (COs also)
 - Conference hall
 - Seminar room
 - Class rooms
 - Wall paper on laptop/desktop PC
 - HoD cabin
 - Laboratories

POs are met through the attainment of course outcomes of all courses concerned with that program. Faculty explains these course outcomes to the students in the beginning of the course.

File Description	Document
Link for Additional Information	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

The learning outcomes spell about the capabilities of graduating student in terms of knowledge, skill and attitude. The POs related with knowledge of Maths, Science, Engineering Management skills, communication skills, use of modern tools, ethical behavior, team work, project finance and management, lifelong learning.

- The knowledge related POs are attained by the students through the courses spanned over four years of graduation study and are assessed through direct assessment tools viz. examinations, assignments, etc. as well as indirect assessment tools like course exit survey and program exit survey.
- The skills related to POs like team spirit, communication skills (both oral and written), use of modern tools etc are attained by the students through direct assessment tools like laboratory sessions, laboratory examinations, mini-projects, projects, seminars, presentations & co-curricular and extra-curricular activities.
- POs related with ethical behavior and attitude is assessed through participation of the students in societal work carried out by the student, observation on his overall behavior and response and independently executed tasks.
- All direct and indirect assessment tools are used by all faculty members of all programs throughout the semester.
- The attainment of course outcomes is computed by all faculty members for their respective courses through direct assessment tools and course exit survey.

The details regarding efforts taken by faculty and institute to ensure the attainment of POs are as follows:

- During the preparation of teaching plan, the discussion in the classroom, question paper setting, conduct of internal examination is held
- Regular assignments are conducted to monitor the progress of the students.
- The College organizes co-curricular and extra-curricular activities to enrich the outcomes.
- The student learning outcomes in curricular activities is monitored by the teacher through students' performance in the classroom during the lecture hours.
- Targets are set based on the previous year's performance. After every semester faculty calculates attainment of Course outcomes (COs).

File Description	Document
Link for Additional Information	View Document

2.6.3 Average pass percentage of Students

Response: 88.3

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 385	
2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution	
Response: 436	
File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process
Response: 3.59

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description

Document

List of project and grant details

[View Document](#)

3.1.2 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0

3.1.2.1 Number of research projects funded by government and non-government agencies during the last five years

3.1.2.2 Number of full time teachers worked in the institution during the last 5 years

Response: 560

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

- Institute supports for professional development of the faculty by encouraging them to pursue higher qualification (Like ME/MTECH or PhD).
- Institute deputed faculty members for attending refresher and orientation programs, conferences, seminars and training programs organized by other organizations.
- Institute also conducts seminars, workshops and special lectures for faculty members and students.
- Institute grants duty leaves (paid leaves) according to the nature of work.

- Faculty is encouraged for publishing their research papers in refereed national/ international journals and conferences.
- National and international level interface has been established for teaching and research.
- Institute has environment to foster research culture providing required research infrastructure and support.
- A dedicated Research & Consultancy cell is established which looks after the R & D promotion activities for staff and students such as participating in conferences, seminars, workshops etc.
- In association with Innovation Cell, it organizes IPR related activities.
- Institution has an entrepreneurship development cell, industry institute interaction cell that encourage forging a relationship between the industry and the institution.
- Institute has developed the research culture amongst the students through Special Interest Groups (SIGs) which works on the recent trends in technologies associated with the courses mentioned in curriculum.
- Individual department interacts with industry to ascertain its needs to fill the gap in curriculum.
- Faculty members regularly interact with the industries to understand functional challenges through applied research or student projects.
- Expert lectures by industry personals for students. Conducting joint technical programs & events with industry.
- The departments are well equipped labs which contains latest tools to perform research based projects.
- The Innovation Cell fosters an innovation culture wherein the innovator students at grass root level are identified and subsequently groomed for technology transfer.
- The focus is on converting the student projects into products.
- It facilitates interaction between the students and external agencies for innovation related activities.
- This ecosystem has helped to create many entrepreneurs.
- The Institute has signed 14 MoUs with different organizations and industries.
- Presently, we are in the process of establishment of Incubation Centre. In view of this, we have signed 02 MoUs with the research organization.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 34

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
13	16	0	0	5

File Description	Document
Report of the event	View Document
List of workshops/seminars during the last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
e- copies of the letters of awards	View Document

3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.12

3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
16	14	5	21	9

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

3.3.4 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 1.02

3.3.4.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
25	14	14	27	34

File Description	Document
List books and chapters in edited volumes / books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

The extension activities are planned and executed to provide practical exposure to the students regarding various social issues.

The college organizes numerous activities under NSS, Student Rotaract Club and department forums to assimilate social responsibilities.

NSS: Since the inception of Institute in the year 2008, NSS team has organized number of awareness programs related to the environment and social issues which includes:

- Blood donation camps.
- Tree plantation programmes.
- Swachh Bharat Abhiyan on the occasion of birth anniversary of Mahatma Gandhi.
- Traffic Control programmes for rural community.

- “Shiv Jayanti” celebration
- Water conservation at village Umatha.
- Awareness programme “Say no to nylon Manja” on the occasion of Sankrant at Samvidhan Chowk.
- Door to door campaign in Mahurzari village to make people aware about the importance of cleanliness in their surrounding, cleaning Mahurzari Lake and Open Defecation Free (ODF) village/slum.

Every department has forum under which number of activities have been organized. Many of the activities are jointly organized with NSS and Rotaract Club:

- “Nirmalya Ganesh Festival”- wherein the environment concerns are looked after.
- Active Participation in Gorewada Forest Festival
- Seminar on Human Rights, Indian Judiciary System and Constitution of India
- Honor and Commemoration of WAR heroes
- Celebration of Unity Day
- Constitution Day Celebration
- Celebration of Yoga day
- Educating the students regarding “Swachhata MoHUA” App
- Educating the students regarding time management
- Rainwater Harvesting & Watershed Development
- Visit to Jeevan Vikas Ashram
- “Upay Footpath Shala” event
- Rakshabandhan with the students of physically disabled students
- Health Checkup camps

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 1

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	1	0	0

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 33

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
10	8	5	6	4

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 86.67

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
951	1413	1377	1445	1384

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 250

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
146	41	23	26	14

File Description	Document
Number of Collaborative activities for research, faculty etc.	View Document
Copies of collaboration	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 8

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
8	0	0	0	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

Yes, the Institution has adequate facilities for teaching learning processes. The Institute has sufficient space and area as per norms of statutory bodies. As per AICTE norms, Land area required is 2.5 acres. The College is having an area of 40468.6 sq.m. (10 acres). The total built-up area is 10424.403 sqmt. The state-of-the-art infrastructure facilitates a good teaching-learning environment. The infrastructure includes 20 classrooms, 05 tutorial rooms 38 laboratories, common workshop, central library, seminar hall, open stage, canteen facility and playground, sick room, T & P Cell, girls common room, boys common room. Most of the classrooms are equipped with multimedia teaching aids. As per guidelines of Rashtrasant Tukadoji Maharaj Nagpur University, each laboratory is equipped with sufficient number of required experimental setups. Every department has dedicated laboratories and classrooms. There are separate tutorial rooms wherein classes are conducted for specific subjects. The activities which require large gathering like placement talks, expert talks, awareness programs, interactions are arranged at state of art seminar hall equipped with audio visual systems. The ambience of these facilities is well maintained by housekeeping staff. The time tables are prepared considering the contact hours of each subject, classroom and laboratory utilization. Resources are shared across departments whenever needed. Every department has computer laboratory which is utilized for workshops, aptitude tests, project development and competitions.

20 ICT Class rooms and 1 ICT enabled seminar hall is available in the Institute. The campus is WiFi enabled with 358 computers in LAN connection. Every department has adequate equipments and computing facilities which are utilized by students and faculty members. Institute practices optimal utilization of these resources by conducting various events. These facilities suffice the ICT based teaching learning methodologies of the Institute which includes online contents, videos etc.

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

Response:

- The Institute is having dedicated and experienced faculty for executing sports activities with the designation of “Director - Physical Education”. He looks after all in-house and outside sports activities pertaining to International, National and State level events.
- The college has playground with sports facilities like basketball, volleyball, football, Cricket, tug of war, athletics etc.
- Apart from outdoor games Institute has made a provision of indoor games such as table tennis, carom, chess, badminton, etc.
- Every year Institute promotes students to participate in various sports events conducted by University and other organizations.
- The Institute conducts Annual Sports meet under the banner of “UDAAN”.
- Every year Institute conducts mega cultural activities in the name of “Pratibimb”, wherein various

cultural activities like dance, singing competition, student personality show, quiz, debate competitions, Antakshari, etc. are organized. The cultural activities are conducted at Seminar hall and open space.

- The activities of Yoga are arranged regularly for students and faculty members. Students have won prizes and medals at National level Yoga competitions.
- The Institute celebrates cultural festivals like Dahihandi, Ganesh festival, Vishwakarma Puja, Diwali Milan, Holi, etc.

File Description	Document
Link for Additional Information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 21

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
Link for additional information which is optional	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 28.5

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
120	110	100	150	70

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document

4.2 Library as a Learning Resource

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

Response:

Library has total area of 411.115 sq.m. with reading room having seating capacity of 150 students. Library remains open on all working days between 9.30 am to 5.00 pm. Library provides open access facility to students and faculty. Library users can move freely in stack and can select the required books of their choice for issuing and reading in the reading room. The library staff assists students for tracing the required books from the stack. Most of the news papers and magazines are also available for students and faculty.

Library is having Web OPAC facility where students can know the information about available resources. It is registered as a member of National Digital Library. It also has reprography facility. Book bank facility is extended to backward category students.

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

- **Name of the ILMS software:** Sack Info 2.5

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

- **Nature of Automation:**

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

- **Version:**

Sack Info 2.5 version.

- **Year of Automation:**

Session 2008-2009.

The details of ILMS are				
Sr. No	Name of ILMS Software	Nature of Automation (Fully/ Partially)	Version	Year of Automation
1	Sack Info ERP	Fully	1.9	2013-14
2	Sack Info ERP	Fully	2.1	2014-15
3	Sack Info ERP	Fully	2.3	2015-16
4	Sack Info ERP	Fully	2.4	2016-17
5	Sack Info ERP	Fully	2.5	2017-18

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Library is having a collection of total 20683 books belonging to the course run by the college. The books comprises of text books and reference books.

As per AICTE requirement the requirement of and actually we have in our library are as follows

Requirement:

Heads	As per AICTE Requirement	Actually Having in Institute
No. of Title	2650	3218
Total no. of Volumes	15750	20683
Books for Book Bank Scheme	---	9242
Subscription to National Journal	30	37
Total no. of CDs	---	534
Total no. of Projects	---	397
NPTEL Video lectures	---	17

Sufficient number of rare Books, Special Reports and Other knowledge resource is available in the central library of the institution for its enrichment.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 4.17

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
14.75	0.48	1.51	0.7	3.39

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 4.08

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 61

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Institute has state of the art IT infrastructure facility in campus. Institute has 3 Servers which are used to host cyber activities of the Institute. Institute is having 358 Computers connected in LAN which are used by students and staff. Classrooms and seminar halls are equipped with LCD Projectors (14) and WiFi/LAN connectivity. Separate Audio Visual Hall with internet connectivity is available for webinars and live video lectures. Institute has 35 MBPS bandwidth lease line with ratio 1:1. It is planned to upgrade the bandwidth of WiFi. Institute regularly updates and upgrades IT infrastructure time-to-time as per requirement. Every year, budgetary provision is made for up-gradation. Institute has partially upgraded LAN speed from 100MBPS to 1GBPS by deploying new GBPS Ethernet switches. Reliance Jio infratech Wi-Fi is also installed for staff and students.

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

- Procurement of upgraded Computers and accessories.
- Procurement of Advanced Software as per the requirements.
- ICT- Classroom facility is available for adopting modern teaching learning process.
- All the systems are LAN connected.
- 12 CCTV's are installed to monitor all the events and happening in the Institute.

Moreover, the Institute regularly organizes Online Exams of reputed organizations like, CAG of India, Tata Consultancy Services (TCS), IBPS, RBI, JEE, GATE, AIIMS, SSC of India, MPSC, UPSC, TCS, Indian Air Force etc.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

4.3.2 Student - Computer ratio

Response: 3.92

File Description	Document
Any additional information	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: 35-50 MBPS

File Description	Document
Any additional information	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 4.73

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities

excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
18.50	13.69	19.29	21.19	21.39

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

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

Response:

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.
- A note-sheet is produced in front of principal and management for the approval.
- After maintenance work, bill is forwarded and sanctioned by Principal of Institute.

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 equipments 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.
- Online Technical/Aptitude test of students conducted during campus recruitment drive of various

companies.

- Laboratory in-charge looks after the maintenance of the laboratory.

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:

- All the books are entered in ILMS with unique accession number.
- The books were arranged subject wise/branch wise/specialization wise on the rack.
- Librarian collects list of required books, magazine, journals from each department.
- 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.
- Digital Library and Network Resource Centre of the library is used for accessing e-resources On line. 10 computers are available which are connected to high speed internet to access online material.
- Faculty and students are allow to read reference book, rare book, news papers, magazines at reading room of the library during their free time.
- It is mandatory to staffs and students to enter their name in entry register before entering in central library.
- Apart from central library, department is also have department library.
- One Faculty member is made in-charge to maintain the record of the Dept. Library.

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.

- State-of-the-Art Seminal Hall and play ground is available to conduct various cultural activities like SANKALP, PRATIBIMB, UDAAN, ANVENSHAN etc.
- Laboratory in-charge looks after the maintenance of the laboratory.
- Housekeeping in-charge looks after the cleanliness of the respective departments including classrooms.

Other Maintenance Activities:

- Maintenance of garden, tree plantation, landscapes maintenance, external and physical beautification of the Institute campus, is done by Institute staff.
- Apart from this, student volunteers from Institute NSS unit, student forums undertake plantation work periodically on the campus in the form of social service.
- Maintenance, cleaning, housekeeping, sanitary maintenance and cleaning of all the class rooms, sports complex, laboratories, library, and Institute canteen too, have been maintained by internal committee.
- Sub-staff appointed in the respective sections supervise these activities.
- Round the clock security on the Institute campus is done by the external agency.

Sr. No.	Physical, Academic and Supporting Infrastructure	Maintenance Agency
1	Computers, LCD, Printers and Antivirus	In-house and External Agency if required
2	EPABX, Telephone Lines	In-house maintenance
3	RO Plant	Four Hi -Tech, Nagpur
4	Maintenance of Institutional website	Big Add Truck, Pune
5	Central library and reading hall	In House Maintenance
6	Laboratories/Central computing facility	In House Maintenance
7	Sack-Info maintenance	Synchronik, Nagpur
8	11 KV Substation with 200 KVA transformer & Standby DG Set of 125 KVA	In House Maintenance
9	Seminar hall/Class Rooms/Tutorial Rooms	In House Maintenance
10	Sick room	In House Maintenance
11	Cafeteria/Canteen	In House Maintenance
12	Play ground	In-house maintenance
13	Internet Security	Antivirus Software
14	Covered parking	In-house maintenance
15	Cleaning	In House maintenance
16	Fire Extinguisher	External Agency
17	Electrical	In-house maintenance
18	Furniture	In-house maintenance
19	Civil work	In-house maintenance

20	Plumbing Work	In-house maintenance	
21	Campus Security	In-house maintenance	
22	Garden	In-house maintenance	
23	Surveillance System, CCTV Cameras	External Agency	

NAAC

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 82.66

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1206	1264	1245	1298	1225

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document
Any additional information	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 1.98

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
32	33	29	29	26

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	View Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 11.62

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
367	128	65	186	116

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 31.16

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1267	233	298	170	302

File Description	Document
Details of the students benefited by VET	View Document
Any additional information	View Document

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document
Any additional information	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 36.18

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
190	139	74	60	64

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 2.6

5.2.2.1 Number of outgoing students progressing to higher education

Response: 10

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 6.6

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	5	9	5	11

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
175	127	139	93	71

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

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) during the last five years.

Response: 4

5.3.1.1 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-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	2	0	2	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

The Institute has an active Student Representative Council (SRC). It conducts variety of activities for students. SRC works democratically to represent the student body in Institute. It is the source for students to participate in various decision-making of certain levels. Nagpur Institute of Technology, Nagpur, every year organizes "PRATIBIMB" (Annual Social Gathering) and UDDAN (Annual sports meet),

“SANKALP” (Ganesh Festival), “ANVESHAN” (National level project competition). All these programs are organized by Students Representative Councils (SRC) committee members.

Objective of Students Representative Councils (SRC):

- To provide a platform for students to support, share and excel in potential qualities.
- To promote the views of students and to encourage students to become actively involved in their college tenure.
- To provide actively participation and leadership opportunities.
- To provide platform where students can personally voice their opinions
- To participate in various activities/events at institute & outside world.

The Institute Students Representative Councils constitution is as follows:

- Chairman-Principal, NIT Nagpur
- One Teacher nominated by Principal
- Teacher in-charge of NCC
- Teacher in-charge of NSS
- One student from each year per department
- Sport In-charge
- One outstanding student each from NCC,NSS, Sport & Cultural
- Two girls students

The department wise student’s councils also exist, where every year forum installation and conduction of various activities took place. The Department wise forum bodies are:

- FAME (Federation of Active Mechanical Engineers)
- CESA (Civil Engineering Student Association)
- Feeder-(Federation of Electrical Engineering Departmental Enthusiastic Role Model)
- StACS (Computer Science Engineering)
- ITSA- (Information Technology Students Association)

Students represent various administrative committees:

- Anti-ragging committee
- Special cell (Schedule Caste/ Schedule Tribe Cell)
- Grievance Redressal Committee
- Library Committee
- Hostel Committee
- Canteen Committee
- College Magazine Committee
- Sports Secretary
- Gathering Secretary
- Retract Club
- National Service Scheme
- Special Interest Groups

Activities conducted by Students Representative Councils (SRC):-

- To organize annual gathering (PRATIBIMB) at Institute.
- To conduct annual sports (UDAAN) meet at Institute.
- To organize SANKALP Ganesh Festival.
- Departmental forum installation.
- To execute Alumni meet in Campus.
- To arrange Farwell for passing out students.
- To conduct various activities for students in institute.
- To conduct various social activities.

File Description	Document
Any additional information	View Document

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 25.4

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
34	16	28	18	31

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document
Any additional information	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

- The Institute has Alumni association which is taking care of activities pertaining to the Alumni of the Institute.

- The Alumni are having cordial association wherein they contribute significantly and they complement their peers and junior fellows.
- Institute arranges talks of the Alumni whenever they visit the Institute. The on roll students are benefitted by their experiences and guidance
- Alumni have donated books to the Library of the Institute
- Alumni extend their support towards Placement activities by direct or indirect ways.
- The students are benefitted by the support of Alumni towards Internship.
- Alumni guide the students in formal/informal ways.
- Alumni have rendered financial donations to the Institute.
- The Alumni meet is organized every year during the Annual Social Gathering
- Institute sought feedback from the Alumni regarding academic, placement and other activities.
- They also contribute towards framing of POs and PSOs.

The Alumni Cell coordinates all these activities and maintains the records. The representatives of Alumni are constituted as members of Alumni Association. Presently, Alumni Association is not registered.

File Description	Document
Any additional information	View Document

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Any additional information	View Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document
Any additional information	View Document

NVAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

Vision:

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

Mission:

- To provide quality technical education to meet the requirements of industries and society.
- To equip students with need based technical skills through continual improvements in Teaching Learning processes and research activities.
- To inculcate ethical values for overall holistic development of students.

Objectives:

1. To strengthen the Academic activities by providing quality initiatives in Teaching Learning Process
2. To empower students and teachers through skill-based learning/training environment.
3. To provide platform to enhance technical knowledge through improved Industry Interactions.
4. To offer platform for enhancement of intellectual capital of stakeholders through research and innovation avenues.
5. To enhance societal connect through community activities for need based problems.
6. To enhance overall development through co-curricular and extra-curricular activities.

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

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

In distinction to above, Remaining Staff {Teaching/Non-Teaching/Support Staff} are assigned with their roles and responsibilities to achieve, manage and execute department goals and targets in tune with the

Department framework which is in accordance to Cellular Structure. IQAC is responsible to monitor and set new benchmarks in all genres of Institution. It has a well administered process to ensure quality in Academic and Administrative activities.

Short Term Goals:

The Institution strongly believes in articulation of the Mission by framing the short term goals-

- By Imparting Quality Technical education
- By keeping pace with the latest trends in technologies
- By augmenting holistic development of students
- By connecting all the stakeholders

Long Term Goals

The Institution adheres to the Vision and is in articulation of the mentioned Long term Goals-

- To focus on Up gradation of Institutional functionaries
- To develop technical manpower to cater the needs of society

In conversant to Vision and Mission, the Institute has a Structured Perspective/Strategic Plan in order to prioritize the implementation of the need based goals from time to time. The Institute also keeps pace with the instructions received from various affiliating functioning bodies like AICTE/DTE/UGC/University etc.

6.1.2 The institution practices decentralization and participative management

Response:

The Institution practices a decentralized governance system with properly administered inter-relationships. Various cells/bodies/committees are constituted which involve staff {teaching /non teaching/support} and students to manage various institutional activities. Committees/Cells are formed for information dissemination, management and execution of the various curricular, co-curricular and extracurricular activities to be conducted/participated by the Stakeholders during the academic year. The departments provide a platform to all its stakeholders by arranging various activities with the support of Management for the benefit of Students and Faculty. Institute is keen on the teachers' involvement and participation for improvement of effectiveness and efficiency of the institutional teaching learning process and adopting various methods for up gradation in them. The Institute has always been in favor of participative management and welcomes the suggestions put forth by the teachers in the meetings in the forum of HoDs, Principal or CDC. Management ensures that the opinions and suggestions made by faculty and staff are included in the decisions implemented for college development. This process probes to the institutional

practices for decentralization and participative management.

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

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

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

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

- Vision and Mission of the Institute
- Quality policy of the Institute
- Short Term and Long Term Goals
- Expertise of the stakeholders
- Global Trends in Higher and Technical Education
- Rapidly changing Stakeholder needs

- Brainstorming with stakeholders
- Analysis of Local scenario

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

Strategic/Perspective Plan of the Institute:

2018-19:

Good academic results

Ranking by renowned agencies

Increase count of prominent MoUs

NPTEL Chapter

Accreditation by NAAC

2019-20:

Registered Alumni Association

Organization of National and International Conference

Permanent Affiliation from RTMNU

Publications and Patents

Professional Chapters

Incubation Centre

2(f) and 12(b) status from UGC

To increase PhD faculty

2020-21:

Alumni Chapters

PG Programme

Research Centre

Centre of Excellence

International Collaboration

Accreditation by NBA

2021-22:

International University Collaboration

Student and Faculty Exchange

Research Grants from GOI

NIRF Ranking

2022-23:

Autonomy Status

NABL Certification

Consultancy

Auditorium

2023-24:

Sponsored Laboratories from Industry

Residential Campus

Deemed to be University

Full Green Campus

File Description	Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

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

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

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

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

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

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

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

in the institute.

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

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Planning and Development
2. Administration
3. Finance and Accounts
4. Student Admission and Support
5. Examination

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	View Document
Details of implementation of e-governance in areas of operation Planning and Development, Administration etc	View Document
Any additional information	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and

implementation of their resolutions**Response:**

For the knowledge enhancement of students, NPTEL Local chapter was installed at Nagpur Institute of Technology Nagpur.

NPTEL Local Chapter NPTEL (National Programme on Technology Enhanced Learning) is a joint initiative of the IITs and IISc. Through this initiative, NPTEL offer online courses and certification on various topics. To take this initiative forward and to encourage more students across colleges to participate in this initiative, NPTEL have set up SWAYAM-NPTEL chapter in colleges (with the approval of the management) which is under the headship of a faculty member of the college who is Single Point of Contact (SPOC). NPTEL Open Online courses were initiated so that students can directly learn from faculty in top colleges. While enrollment and learning is **free**, students can also obtain a certificate from the IITs, based on successful completion of an exam, for which there is a nominal examination fee. In 2014 process of getting **certified** from NPTEL courses was initiated, so that learners get a tangible end result in the form of a **certificate** from the IITs/IISc for their effort. **Certification** courses are offered twice a year (Jan-Jun, Jul-Dec).

Library Cell took whole responsibility of conduction of NPTEL online courses at the Institute. In the first meeting of Library Cell regarding NPTEL online courses the information about the course commencement was provided to all HODs. The procedure of mentor allotment for the students was discussed. The NPTEL courses provide weekly assignments and mentors were asked to get these assignments solved from their respective mentees in the said time duration also the weightage of assignment in examination was discussed. In the following meetings, the progress reports of students as well as the faculties were monitored time to time and planning was done to enhance the performance.

As a result of rigorous efforts taken, total 240 students and 40 faculties registered for the different online certification courses of NPTEL. Out of the total registrations, 100 students and 28 faculties passed the examination. The passing percentage for students and faculties is 45.87% and 82.35% respectively. 20 students and 10 faculties got the elite certificate in the exam.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.3 Faculty Empowerment Strategies**6.3.1 The institution has effective welfare measures for teaching and non-teaching staff****Response:**

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

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

File Description	Document
Any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 2.5

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	7	0	0	0

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	View Document
Any additional information	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 2.2

6.3.3.1 Total number of professional development / administrative training programs organized by the

Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	2	2	2	2

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 29.52

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
62	35	16	14	25

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

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

academic growth. It is mandatory for every Faculty member and Staff to submit the performance appraisal for every semester. The performance appraisal system for teaching staff is evaluated on following parameters:

I. Teaching, learning and evaluation related performance

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

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

III: Research, publications and academic contributions

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

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

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

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

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

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

Budget for every event/activity is prepared by activity incharge and it is approved by Principal well in advance.

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

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

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

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

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

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 167.12

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
70	0.074	0.775	0.27	96

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document
Any additional information	View Document

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

Response:

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

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

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

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

Being self financed the revenue generation is based on student's fees collection. Budgetary provisions are made for various expenditure heads on the basis of priority by

taking into consideration the accrued revenue available i.e. repayment of loan, salary expenditure, books and equipment, recurring expenditure etc. Provision of funds is made through bank loan in case funds accumulated through students' fess are found to be insufficient for budgetary provision. Exigencies and urgent requirements of funds are duly addressed.

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

File Description	Document
Link for Additional Information	View Document

6.5 Internal Quality Assurance System

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

Response:

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

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

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

Followings are the objectives of IQAC:

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

The roles of IQAC are as follows:

oEnsuring timely, efficient and progressive performance of academic, administrative and financial tasks;

- The relevance and quality of academic and research programmes;
- Equitable access to and affordability of academic programmes for various sections of society;
- Optimization and integration of modern methods of teaching and learning;
- The credibility of evaluation procedures;
- Ensuring the adequacy, maintenance and proper allocation of support structure and services;

The responsibilities of IQAC are as follows:

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution;
- Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process;
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes;
- Dissemination of information on various quality parameters of higher education;
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles;
- Documentation of the various programmes /activities leading to quality improvement;
- Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;
- Development and maintenance of institutional database through MIS (SACK INFO) for the

purpose of maintaining/enhancing the institutional quality;

- Development of Quality Culture in the institution;
- Preparation of the Annual Quality Assurance Report (AQAR) and subsequent submission to NAAC.

For instance, IQAC / AMC has played active role in enhancement of Academic activities wherein rigorous planning, monitoring and remedial actions of academic processes has resulted in enhancing the B.E. First year result by 15% in Winter 2018. Also 02 students secured University topper rank. Also due to the enhanced Industry Institute Interaction activities monitored by AMC, Institute got GOLD ranking in the AICTE-CII survey of 2018.

File Description	Document
Link for Additional Information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Institute has best academic practices for student's development. Office of Dean Academics take cognizance of academic practices performed at Institute. Before starting of every semester, Academic Calendar is prepared well in advance. Teaching plan is designed by respective faculty members. Regular lectures, practicals and other academic activities are performed as per the calendar. Monthly review of the same for all subjects is taken by Head of Departments and summary report is generated. Internal assessment of students is recorded using criterion viz.; Class test performance, assignments, field projects, laboratory projects and performances, involvement in co-curricular and extracurricular activities, research, participation in seminars/ conferences / workshops/ guest and expert lectures, active participation in training sessions, leadership qualities and mid semester and pre-university examination. Teacher-guardian counsels the mentees. The inputs from subject teachers help to identify the fast and slow learners. The Remedial classes are arranged for slow learners and their performance and improvement is monitored by subject faculty. At the end of the semester department class coordinator generate and submit the consolidated report of slow learners and performance after remedial classes to Head of the Department. The review is taken on regular basis for the effectiveness of teaching-learning process. The institutional reviews and implementation of teaching learning reforms facilitated by the IQAC are based on the following two examples:

1. Conduction of Academics:

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

- Time Table coordinator prepares class timetable, remedial coaching time table.
- Daily Attendance is compiled.
- Two Mid Session Tests and Class tests are conducted.

- Smooth conduction of Pre-University and University exams.
- Parent Teacher Meets are regularly conducted.
- Feedback is sought two times a session.
- Guest lecture /Expert lectures are conducted in departments.

Few academic outcomes relate to the University Toppers :

10th Rank in University Summer 2018 Examination 2018 (Computer Science and Engineering)

4th Rank in University Summer 2016 Examination (Electrical Engineering)

8th Rank in University Summer 2016 Examination (Information Technology)

File Description	Document
Any additional information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 5.8

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	6	6	6	5

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
Any additional information	View Document

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: D. Any 1 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document

6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

Response:

Incremental Improvements:

- Cellular structure :

Institute has adopted Cellular structure wherein 23 cells are constituted and the governance is according to the same.

- Enhanced I.I.I. activities:

There is significant rise in the I.I.I. activities. There is more involvement of industry persons in the Institute activities.

- Increased Placements:

Institute has provided ample opportunities to students for placement with increased package.

- Huawei Certifications:

The Institute is Center of “Huawei Telecommunications” for HCNA certification Examinations. Ms. Archana Shrivastava-student of 3rd Year CSE has topped the National level examination. Mr. Jagdish Pimple-HoD IT has topped in the faculty examination.

- Center for Online Competitive Examinations:

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

- Ph.D Faculties:

12 Ph.D faculty members have joined the Institute in recent times.

- More PG faculties:

Many faculty members have completed their PG

- Increased Academic Results:

There is 15% rise in Academic results

- Training Programmes:

Various training programmes are organized with industries and organizations pertaining to the expertise of faculty members.

- Increased Publications:

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

- Increased Internships:

Students have undergone Internships at various industries of nearby region wherein they are benefitted much.

- Industry Visits:

The students have visited various industries for gaining technical knowledge.

- NSS/NCC Activities:

The NSS cell has organized NSS activities wherein many initiatives were undertaken for the nearby rural community.

- MoUs:

Institute has signed MoUs with many industries and executed activities for the benefit of stakeholders.

File Description	Document
Any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 4

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	0	0	1

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

Institution shows gender sensitivity in providing facilities such as:

1. Safety and security

- For safety and security purpose total 12 CCTV cameras have been mounted at various locations like main gate, building main Entrance, all the floors, computer laboratory, corridors, server room etc.
- The Institute has 10 Fire extinguishers which have been located at prominent places in the campus, in each department corridor, near electric panel at maintenance room.
- Institute has RO water plant for water filter purpose.
- Institute has medical room for injured or ill on the premises.
- Institute has organized many health related programs in collaboration with an NGO- “Koshish Foundation”.
- Institute has hired external security agency for provision of security wherein guards are there at campus for 24 hours.

- For safety and security purpose Institute has maintained entry and exit records for visitors.
- The Institute has constituted Anti Ragging Committee which protects student against ragging.
- The institute has Internal Complaint Committee, Grievance Redressal Committee and Women Cell which deal with the safety and security of girl students and female staff in the campus.
- The college has discipline cell which helps to maintain discipline in the college premises.
-

1. Counseling

Counseling of students is carried out by various committees and activities such as

- **Women Cell:** Institute has constituted this cell to encourage and motivate girl students to participate in various activities. Under this cell various programmes are organized every year like celebration of International Women's Day on the theme of "Prevention, Prohibition and redressing of issues relating to Sexual Harassment of women At Workplace", "Fearless Life" and various programmes pertaining to Personality Development.
- **Internal Complaint Committee :** It looks after setting a mechanism for the prevention and redressal of sexual harassment cases and other acts of gender based violence at the Institute. It attempts to ensure the implementation of the policy through proper reporting of the complaints and their follow-up procedures. It upholds the commitment of the Institute to provide an environment free of gender based discrimination. It aims to create a secure physical and social environment to deter any act of sexual harassment. It also promotes a social and psychological environment to raise awareness on sexual harassment in its various forms.
- **Grievance redressal committee:** It aims to uphold the dignity of the Institute by ensuring strife free atmosphere in the College through promotion of cordial relationships. It provides responsive, accountable and easily accessible mechanism for settlement of grievances and to take measures in the Institute undertakings to ensure expeditious settlement of grievances of Students in order to maintain a harmonious educational atmosphere. The focus of this committee is to encourage the Students to express their grievances / problems freely and frankly, without any fear of being victimized. It also advises the students to respect the right and dignity of one another and show utmost restraint and patience whenever any occasion of rift arises.
- **Teacher-Guardian (TG) Scheme:** Under this scheme a faculty member (Teacher Guardian) is made a caretaker of group of students to track academic record and address the academic and personnel issues. The TG carries out counseling and records the observations. The counseling includes social and ethical aspects too. Human and ethical values are so imbibed in the students, that no incidence of misbehavior against women has ever been observed in the campus.

1. Common Rooms

Girls & Boys common room

Institute has provided common room facility for Girls & Boys. Students can use common room for

relaxation, study, lunch and for informal discussions during recess period.

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

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

7.1.3.2 Total annual power requirement (in KWH)

Response: 179894

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 0

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 0.68

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 153203

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Waste Management

1.Solid Waste Management: - The solid waste in the campus, generated from various potential sources such as academic buildings, hostels, canteen, Garden, etc., is managed by housekeeping staff assigned to different locations in the campus. There are 23 workers for the waste management in the campus. Dustbins are placed at different locations in the campus. Some dustbins are placed in the class rooms and laboratories. Dustbins are also placed in front of cafeteria and in the corridors. The waste is collected in hand carts and transported to the disposal sites. Plant leaves and other garden waste is used for preparing compost. Newspapers remains are sold to local vendors. Plastic wastes are segregated and sent to municipal corporation.

1.Liquid Waste Management: - The waste water from various departments is collected by a network of underground and open drains and disposed into a nallah adjacent to premises. Waste water from water closets is collected into septic tanks provided separately for various buildings.

1.E-Waste Management: - Some of the e -waste is used for utilising hardware in laboratories for display and study. Some of the components are used for demonstration purposes. Electronic goods are put to optimum use. The electronic components such as old invalid projects of final year students as well as damaged or old electronic circuits, models are reused for making the new electronic devices/projects by the students. Departments allow the students to reuse those components. Faulty and irreparable computers are sold to scrap vendors. UPS Batteries are exchanged with the suppliers. Obsolete computers are buy-backed with new ones. Old and un-upgraded computer machines are sold to different vendors.

File Description	Document
Any additional information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Rainwater harvesting system:**The Institute has implemented Rainwater harvesting.**

- Rainwater harvesting is used for collecting and storing rainwater from rooftops, the land surface using techniques such as jars and pots as well as underground checks.
- It has emerged as an alternative for supplying freshwater and is helping to promote environment friendly approach.
- It is a “Green Practice” having benefit of keeping the groundwater level undisturbed and charging the water level. It is in a way protecting soil erosion and recharge the aquifers to increase the groundwater level.
- The surface rainwater is collected and channelized through surface canals to the bigger soak pit.
- The natural rainwater is also channelized through pipes mounted on roof tops.
- To raise the underground water level and helping to reduce scarcity of water.
- It is used to reduce the run-off water.
- At the campus, it is used to store the water for gardening & washing purpose.

Rooftop water harvesting:

The runoff from the terrace of the college building is channelized into one soak pit. All the rooftop rainwater outlets discharge into water drains and then to the recharge soak pit. To facilitate groundwater recharge, all structures are provided with soak pit.

Surface runoff water harvesting:

The runoff from the paved area is intercepted at the main gate by a collection trench. From here the run off eventually drains into an abandoned open soak pit which facilitates ground water recharge.

File Description	Document
Any additional information	View Document

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

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.

File Description	Document
Any additional information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.97

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
4.7	3.1	3.07	4.61	3.09

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	View Document
Any additional information	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students

8. Any other similar facility (Specify)**A. 7 and more of the above****B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** C. At least 4 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years**Response:** 5

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	1	0	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document
Any additional information	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)**Response:** 11

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	5	1	1	2

File Description	Document
Report of the event	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	View Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Any additional information	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 10

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	5	2	1	00

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

The Institute organizes National festivals and birth / death anniversaries of the great Indian personalities:

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 and faculty 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 2018 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, faculty members and Non teaching staff 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, faculty members and Non teaching pay homage to the martyrs who lost their lives in 26/11 strike.

Surgical Strike Day:

Surgical strike day was observed on 29th Sep 2018. Retd, Wing Commander Subhash Agrawal was invited as chief guest to sensitize the students regarding the sacrifices made by the armed forces in protecting the borders.

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. The University is named after this great personality.

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 15 September. Under the guidance of teachers, 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, teaching and non teaching staff participate in huge number in "Swachhata Abhiyaan".

File Description	Document
Any additional information	View Document

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The college is maintaining the quality of education which is evident from various academic parameters. Since its inception, all the requisite norms of statutory authorities have been implemented. There is utmost transparency in its financial, academic, administrative and auxiliary functions.

Financial Transparency

The student fees payment and salaries of staff is made through bank. The entire financial management is audited every year by external auditors. Students desirous of financial aid are being supplemented with scholarships. The college follows a practice of inviting quotations before purchase of equipments, consumables, computers, furniture and fixtures etc. Comparative statements of quotations is prepared and put up for sanction after due recommendations. Purchase order is placed and payments towards the purchase are made through cheques. All the details pertaining to financial matters are accessible through Accounts officer. All departmental budgets are proposed by concerned authorities and reviewed fairly without any bias. The fee structure is available in open domain.

Academic Transparency

The college conducts two Sessional examinations (MST), Class Tests (CT) and Objective Tests(OT). Pre University Test (PUT) is also conducted which is based on University paper pattern. The papers are evaluated immediately after the examination and marks are displayed on the notice board. Papers are shown to the students and grievances, if any, are solved appropriately. This exhibits complete transparency in examination and marking system. During the Parents meet, all the records of students like attendance, marks are shown to parents. Parents are also duly notified about their children's performance and attendance through SMS alerts. Activity calendar is designed by taking into consideration department wise programmes to be conducted during the academic session and displayed accordingly for everybody's access.

Administrative Transparency

The Institute is maintaining sheer transparency in all of its administrative practices. The data related to norms and regulations is available to all the stakeholders and governing agencies. The details of staff are maintained in Service Books. The roles and responsibilities of all the committees and cells are available to all. All the decisions related to effective administration are taken through meetings of various committees. This exhibits the administrative transparency of the college. There is involvement of all the stakeholders in all the requisite committees. There is representation of students, non teaching staff, and faculty members on these committees. The feedbacks from the students given to concerned faculty are available to concerned faculty for improvement. Through these practices, the institution is able to communicate freely and openly with all its stakeholders without any malice. Transparency is maintained by the college all the time to maintain the institution's core values.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

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 external renowned agencies which have expertise and credentials in grooming the students.

Title

Empowering students with Campus Recruitment Training.

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.

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.

The Practice

Following practices are carried out under CRT module:

- Tips on Aptitude Test Preparations & Cracking
 - Practising & Discussion
 - Various areas/sections related to Aptitude Test
- Aptitude Test Practice
 - Script on Self- Introduction, Practising of the script.
 - Creative and innovative techniques of self introduction and practise to introduce within 30 secs and to include only relevant points. One to one feedback is given immediately after the performance.
- Problem Solving Skills
 - Interactive & Discussion Mode
 - Example & Exercise Based
- Presentation Skills
 - Verbal Presentation on a topic to specified audience with the help of audio-visual aids
 - Creating effective power point presentation; using verbal communication.
- Group Discussions
 - Group of 8-10 students and GD topic introduced. Tips how to excel in GD are shared.
 - Students are given practice of putting their points, initiating, summarising, concluding and leading the discussions.
- Body Language
 - Script on Self- Introduction, Practising of the script, Competition on Self- Introduction.
- Personal Interview
 - Simulation method with mock practise. Knowledge of Types of Interview questions- Behavioural, Competence, EQ.

Evidence of success

- The practice has resulted in increasing the placements. There is increase of around 30% placement over the period of last 5 years.

- The said module has helped the students to get placements even after they got passed out.
- The confidence level and body language has significantly enhanced.
- It has helped to enhance competitive environment amongst students.

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

Title Teacher-Guardian Scheme

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

The Context:

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

The Practice:

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

- 15-20 students are allocated to a faculty member
- At the start of an academic year, the TG scheme gets started.
- Notices regarding the same are circulated
- TG collects data in a format like contact details of student, parents, Local Guardian, earlier results etc.
- The students meet TG every fortnight.
- TG updates records of students like daily attendance, test results, internal assessment, assignments, activity details, co-curricular & extracurricular activities etc.
- In case of any problem, the TG counsels and guides the student
- It helps students to concentrate on their studies
- TG provides comprehensive advice on career, courses and jobs that can enable the student to make a proper and informed choice and understand what they can do after they are done with engineering.
- It helps to shape a student's 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 has increased which is evident from the fact that there was not a single case of in-discipline.
- 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.

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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
Awareness program on “Census, awareness among youth on sexual reproductive health and HIV/AIDS”	2013-14	11
Tree Plantation	2013-14	22
Awareness program about electoral voting	2013-14	88
Celebration of International Women's Day	2013-14	264
Swacchata Abhiyaan-Cleaning of college class rooms and premises	2014-15	39
Janjagruti About Swachata Abhiyan	2014-15	49
Tree Plantation	2014-15	23
Awareness program about electoral voting	2014-15	78
Blood Donation	2015-16	45
Gandhi Jayanti celebration	2015-16	55
“No Nylon Manza” Awareness program	2016-17	39
Homage to “Savitribai Fule” first Indian women teacher	2016-17	157
Gender Uniformity Event	2016-17	177
Shiv Jayanti celebration	2016-17	115
Rakshabandhan with the students of Shaskiya Apangachi Shala, Mangalwari Nagpur	2016-17	77
Visit to Jeevan Vikas Ashram	2016-17	56
Celebration of Yoga day	2017-18	141
Gandhi Jayanti Celebration	2017-18	91
Traffic Control event	2017-18	23
Educating the students regarding Swachhata MoHUA App	2017-18	132
Master Talk on Supply Chain Management: Mumbai Dabbawala	2017-18	113
Active Participation in Gorewada Forest Festival	2018-19	8
Seminar on Human Right , Indian Judiciary System and Constitution of India	2018-19	70
Commemoration of WAR heroes	2018-19	177
Celebration of Unity Day	2018-19	183
Donation of Note Books and Pencils to Zilla Parishad School Students	2018-19	5

Problems encountered and resources required:

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

BEST PRACTICE IV

Our Institute's Vision focuses in particular to inculcate Values among students. The Mission concentrates on the inculcation of ethical values for overall holistic development of students. Apart from this we the NIT'ians are committed to bring extra dimension in our students to address these extra add-on dimensions and attributes by motivating and encouraging them to contribute in sport and extra-curricular activities. We are doing best in this area and it is quite evident from the achievements and laurels brought by our students not only in India but abroad also. Prominent contributions and achievements exist every year by participating or bringing the laurels. We are having a dedicated faculty Dr. Jitendra Kotewar who himself is a renowned GYM trainer and acted as judge for various body building competitions and gives liberty to students to participate and to serve the society and the nation.

Title:

Personality Development through Sports and Extra Curricular Activities

Goal:**•To Explore Interests and hidden talents of students**

- Imbibe Higher Self-esteem

•Provide Social Opportunities

- Holistic Development

The Context:

Sports and extracurricular activities play a vital role in the life of students. Sports and extracurricular activities increase opportunities for social interaction and help to develop new relationships. As most of these activities are group-oriented which involves students from different places, it gives them a chance to know more about peers of different passions and cultures. It enhances interpersonal skills.

It increases the level of confidence and also teaches them how to co-operate and work with people in different conditions. They learn to face the challenges that come in education and career. Extracurricular

activities like sports require a person to remain physically fit. Thus students have to be particular about their health and diet. They have to take diet which can make them physically stronger and also do exercise daily. In view of this the Institute is fostering a Sports and Extracurricular activities.

The Practice:

In order to create all round personalities of students the Institute has a dedicated Sports Director Dr. Jitendra Kotewar who is a renowned GYM and sports trainer. The Institute promotes sporty environment through playground and different sports equipments and kits. Apart from this dedicated sports facilitates for outdoor games like Cricket, Football, Volleyball, Kabaddi and indoor games like chess, table tennis, badminton, carom are there. Students participate in University, State and National level competition. Various events are organized round the year like:

- Annual Sports meet “UDAAN” which lasts for one week.
- The students participate in University level, State level and National level sports events. Many have got the “Color Holder” status by winning these.
- Institute is having music room where all musical instruments are available for use of students.
- There is dedicated sports room where all sports kits are available for students.
- Annual Social gathering “Pratibimb” is organized wherein intra-college cultural activities are organised like skit, drama, dance, singing, fashion show, movie making.
- Institute has “Student Representative Council” which organizes activities like “Sankalp-Ganesh Festival” and other student centric activities.
- There is individual FORUM for all the departments wherein various departmental activities are organized thereby promoting social responsibilities among the students.

Evidence of success:

Year	Name of the award/ medal	Sports/ Cultural	Name of the student
2013-14	3rd Position in Folk Dance.	Cultural	Mr. Nitin Bramhvanshi
2013-14	3rd Position in Folk Dance.	Cultural	Miss Shruti Nakhale
2013-14	Gold Medal in Fencing Competition	Sports	Mr. Abhilash Barapatre
2014-15	2nd Position in Best Physique Competition	Sports	Mr. Vivek Singh R Patel
2014-15	1st Place in Yoga Competition	Sports	Mr. Gaurav Dhande
2014-15	Gold Medal in Boxing Competition	Sports	Miss. Karishma Bhojar

2014-15	Vidharbha Ratna award	Sports	Miss. Karishma Bhoyar
2015-16	2nd Position in chess competition	Sports	Miss. Sapna Bawankar
2015-16	1st Position in Student convention Horizon -16	Cultural	Mr. Ashwin Badwaik
2015-16	Bronze Medal in Fencing Boxing Competition	Sports	Mr. Shubham Ramteke
2016-17	First prize in All India Vavusainik Camp-2016	NCC	Mr. Peeyush Kumar Sharma
2016-17	First prize in All India Nausainik Camp-2016	NCC	Mr. Rishabh Chaudhari
2016-17	3rd position at POP Event	NCC	Mr. Dushyant Sharma
2016-17	2nd Prize in Extempore competition	Cultural	Mr. Akshay Kumar Samrit
2016-17	3rd Place in Yoga Competition	Sports	Mr. Gaurav Dhande
2017-18	1st position at POP event	NCC	Mr. Peeyush Kumar Sharma
2017-18	Appreciation certificate for Mock parliament participation	Cultural	Mr. Ashwin Badwaik
2017-18	Certificate of Merit for elocution event	Cultural	Mr. Ashwin Badwaik
2017-18	Certificate of Merit for "Speak for India" Event	Cultural	Mr. Ashwin Badwaik
2017-18	Excellence certificate for Oratory skills in Vidharbha student parliament.	Cultural	Mr. Ashwin Badwaik
2017-18	Best Marching Contingent in NCC- Republic Day Pared	Sports	Miss. Shyamli Jambulkar
2017-18	Selection in University team for Volleyball	Sports	Lokesh Milmile
2018-19	3rd Prize in Intercollegiate Debate Competition	Sports	Mr. Akshay Kumar Samrit

2018-19	Selection in University Yogasan Team, All India Yogasan competition at Chennai	Sports	Mr. Gaurav Dhande
2018-19	3rd Place (21-25 Age gr) in Western India Yoga Sports Championship	Sports	Mr. Gaurav Dhande
2018-19	2nd place (17-35 Age gr) in Western India Yoga Sport Championship	Sports	Mr. Gaurav Dhande
2018-19	3rd Place in Haushi Yoga Association	Sports	Mr. Gaurav Dhande
2018-19	6th Place in Yoga- Artistic Event at Shirdi	Sports	Mr. Gaurav Dhande
2018-19	Selection for Ashian Federation Cup Yoga- Artistic Event	Sports	Mr. Gaurav Dhande

Problems encountered and resources required:

While exercising this practice, few problems were arised which were subsequently addressed in due course of time.

- While undertaking these events, it was required to dedicate extra time. Students used to refuse to participate in such activities but over the time this issue was resolved by proper arrangements of sports timings and facilities
- Students were refraining to participate in the activities due to less confidence level but with the motivation of faculty members, students involvement was increased.

File Description	Document
Any additional information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

Incubation & Entrepreneurial Support:

The Institute has dedicated "Entrepreneurship Development Cell" (EDC) to promote the spirit of entrepreneurship. The prime focus of this cell is to provide a platform to convert student's skills/ideas into reality. Seminars/workshops for students and to provide entrepreneurial support to foster culture of giving impetus to creativity and innovation are organised.

Cell Objectives :

1. To create entrepreneurial awareness/culture in the students.
2. To provide a platform to interact with successful entrepreneurs.
3. To impart entrepreneurial skills amongst students through EDP.
4. To build support system for commercialization of Product/Services developed by student.
5. MoU with various Entrepreneurship Development organizations to run entrepreneurial activities.

Sr. No.	Name of Programme	Date	Venue	Participant
1	Training programme on Banking sales representative (PMKVY)	26- 27/12/2016	NIT, Nagpur	30 Student
2	Training program on Arc & Gas Welding (PMKVY)	26- 27/12/2016		30 Student
3	Training program on Electrician Industrial under PMKVY	26- 27/12/2016		30 Student
4	One day workshop on Business opportunity in Solar sector	14/09/2017		10 Faculty Student
5	Inauguration of co-operative store	08/03/2018		5 Faculty, Student
6	FDP on Industry Institute Interaction	5 -6/06/2016		45 Faculty
7	Training program on Electrician Domestic under PMKVY	19- 02/12/2018		25 Student
8	Workshop on Industry Academy Interface.	07/09/2018	SVPCET, Nagpur	2 Faculty
9	Two Days Workshop on Women Entrepreneurship Conclave	3 - 4/09/ 2018	Jain University, Bangalore	1 Faculty 3 Student
10	One day Workshop on Entrepreneurship Development	15/09/2018	Seminar Hall, NIT, Nagpur	12 Faculty Student

11	UDYOJKA & NEW STARTUP IDEA COMPETITION	03/10/2018	Wankhede Hall, Nagpur	2 Faculty Student
12	Startup fest in Nagpur-2018	06/10/2018	Kavi Suresh Bhat Sabhagruha, , Nagpur	8 Facul

Evidence of success:**Mr.Nadeem Khan**

One of the third year student of Mechanical Engineering Mr. Nadeem Khan has brought laurels to the Institute wherein he has converted ideas into reality. Following are the details:

- Biodiesel from the algae
 - He tested fuel in electric generators' and cars. He added chemicals and is able to lower down the cost to as much as of Rs. 15/- per litre. He has filed patents for the same.
 - He has received various entrepreneurship awards for his inventions like
 - Young Entrepreneur award 2017
 - Best Innovation award 2017,
 - APJ Abdul Kalam Innovation Award,
 - Innovator & Google Startup weekend award 2017
 - Young inspiration award 2018

Awards/ Recognition	Venue
Google startup weekend award(entrepreneur)	Infocepts Nagpur
Felicitated for entrepreneurship and innovation by Dr.Vishwanath Karad, President World Peace Centre	MIT University, Pune
Featured in Hitavada newspaper for creating an innovative advertising platform which is online marketplace for offline adspace	Nagpur
Invited for AGC 2017- a Global convention	Pune
Featured in Sakal newspaper for patent on biofuel.	Nagpur
Presentation in front of investors from Videsh capital USA for startup	Nagpur
Interview at e-cafe TV	MIT Global convention Pu
Featured in Times of India for Entrepreneurship	Nagpur

1st prize in National level project competition	JIT, Nagpur	
1st prize in national level project competition	GWCE Nagpur	
1st prize in Power point presentation competition	JIT Nagpur	
Selected for top 20 innovative ideas in India Innopreneurs in two consecutive years	Lemon Ideas Nagpur	
1st prize in project competition	YCCE Nagpur	
1st prize in project competition	Abha Gaikwad Nagpur	
Zee 24 Taas Young Innovator	Pune	
FICCI E-cafe award	Mumbai	
APJ Abdul Kalam Innovation Award	Nagpur	

Miss. Ritu Malhotra:

Ritu Malhotra, an alumni of Computer Science and Engineering, is a well known personality in Central India for startups.

- She has received award as “Top women of the year 2018- Startup” for the manufacturing of EzySpit product in Nagpur city. She got a trophy certificate and a cash prize of 5 lakhs. She was selected amongst 400 applications from across the country in the category of Women Entrepreneurs.
- She has developed world’s first **EzySpit** spit pack. It is the unique product which helps in avoiding spitting in public place or making walls red. All over the world, spitting and liquid waste on the streets is one of the growing concerns of sanitation issues.
 - EzySpit, Ezy
 - Liquid Disposal Bin,
 - Ezy Vomit Bag and
 - Ezy Urine Bag are the various products she has invented.
- She has also developed world’s first automatic aquarium. The main advantage of this aquarium is that it provides the right quantity of oxygen and food as per the requirement. Automatic on-off switch facility is also developed. This aquarium works without human intervention.

Mr.Saurabh Shrikhande:

One of the final year student of Civil Engineering, Mr. Saurabh Shrikhande set his startup through Google YouTube channel, “Ayurvedic gyan” which is related to health & fitness. He has earned Rs. 3 lakh in the last one & half year through channel and websites. Recently he got recognized by Google for passing 100000 subscribers. The link is <https://www.youtube.com/channel/UCyB3ieaQsX9nOOblNsjrstg> He has also developed other websites in the area of “Ayurvedic Gyan”.

(<https://www.ayurvedicgyan.in>, <https://www.mrshri.com>)

Mr.Ashwin Badwaik:

Final year student of Civil Engineering, Mr. Aswin Badwaik, has distinct honor leading Vidarbha region in coveted “Speak for India”, a major debate competition.

In this competition, more than 1500 colleges participated. In this competition, 28 different categories were selected for the state-level semifinal. 8 finalists were selected for the final round. While representing the Marathi language, he became the first speaker of Vidarbha in the last eight elections in Maharashtra.

Achal Kamdi , Vijaya Tayade, Mamata Kambale and Jiwani Dharane:

Students from IT department, Achal Kamdi, Vijaya Tayade, Mamata Kambale and Jiwani Dharane has developed “Online voting system using face detection and visual cryptography” which bagged third position prize in “TANTRA” -Police High Tech Gadget exhibition. The main objective of this project was to make the voting process online in order to avoid the fake voting.

Ms Gita Bawane:

Sakal Newspaper is running an initiative of “Young Innovators Network”-YIN to give a platform to budding innovators. Under the initiative, it has organized “YIN-Leadership Conclave 2017” and a Ministry of Students was formed. The event gave exposure to students regarding mock ministerial administration and expanded their vision. Ms. Geeta Bawane, student of Information Technology was selected as Energy Minister in the said conclave.

File Description	Document
Any additional information	View Document

5. CONCLUSION

Additional Information :

In the preparation of Self Study Report (SSR), the entire faculties and staff have contributed through the Steering Committee. The students who are our end product are the main motivator and contributor to make this SSR, as they always supported the Institute for betterment of themselves, in particular, and the Institute, in general. Prominent attributes of the Institute are participation and organization of training programmes, skill enhancement programmes, extension activities, sports achievements, cultural achievements, entrepreneurship achievements, and all these with the preservation of core ethics and values.

Concluding Remarks :

This Self Study Report (SSR) presents a compiled study of our Institute through various Criteria key indicators which involve qualitative and quantitative metrics. Institute Vision and Mission are derived by referring SWOC analysis. To achieve the desired objectives Institute is striving hard through the participative, experimental, and student centric learning. To extend the hands towards the society who recognizes our end product, we NITians (students and faculty) are working hard and it is quite evident from the activities which are carried out. Focus is on technical growth with the values to make our students more sustainable and independent. This is proven by the entrepreneurship awareness and the achievements of the students. Institute is adhered to the core values like national development, fostering global competencies, inculcating the value system, promotion of the use of technology and the quest for excellence. Institute is bound to do the best practices for the betterment of the students and the society, as our belief is that no one can move forward without values, so, NIT always try for the quest for excellence by inculcating values, ethics, skill, through the organization and participation in technical and extended activities. NIT hopes that the presented SSR cover exerts and efforts for marching towards technical and value based excellence and is submitted for necessary evaluation and suggestions.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.3.2	<p>Number of value added courses imparting transferable and life skills offered during the last five years</p> <p>1.3.2.1. Number of value-added courses imparting transferable and life skills offered during the last five years Answer before DVV Verification : 1153 Answer after DVV Verification: 13</p>																				
2.1.3	<p>Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years</p> <p>2.1.3.1. Number of actual students admitted from the reserved categories year-wise during the last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>324</td> <td>381</td> <td>397</td> <td>341</td> <td>351</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>216</td> <td>254</td> <td>272</td> <td>238</td> <td>242</td> </tr> </tbody> </table> <p>Remark : DVV made the changes by looking seats earmarked against the students admitted from reserved category.</p>	2017-18	2016-17	2015-16	2014-15	2013-14	324	381	397	341	351	2017-18	2016-17	2015-16	2014-15	2013-14	216	254	272	238	242
2017-18	2016-17	2015-16	2014-15	2013-14																	
324	381	397	341	351																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
216	254	272	238	242																	
2.3.3	<p>Ratio of students to mentor for academic and stress related issues</p> <p>2.3.3.1. Number of mentors Answer before DVV Verification : 76 Answer after DVV Verification: 85</p> <p>Remark : DVV made the changes as per list of mentor provided by HEI.</p>																				
2.4.4	<p>Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years</p> <p>2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>18</td> <td>16</td> <td>20</td> <td>17</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	17	18	16	20	17										
2017-18	2016-17	2015-16	2014-15	2013-14																	
17	18	16	20	17																	

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

2.6.3	<p>Average pass percentage of Students</p> <p>2.6.3.1. Total number of final year students who passed the examination conducted by Institution. Answer before DVV Verification : 345 Answer after DVV Verification: 385</p> <p>2.6.3.2. Total number of final year students who appeared for the examination conducted by the institution Answer before DVV Verification : 389 Answer after DVV Verification: 436</p> <p>Remark : DVV made the changes result number of passed students and appeared students provided by HEI.</p>
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3.3.4	<p>Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years</p> <p>3.3.4.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>15</td> <td>14</td> <td>27</td> <td>34</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>14</td> <td>14</td> <td>27</td> <td>34</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	25	15	14	27	34	2017-18	2016-17	2015-16	2014-15	2013-14	25	14	14	27	34
2017-18	2016-17	2015-16	2014-15	2013-14																	
25	15	14	27	34																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
25	14	14	27	34																	

3.4.2	<p>Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years</p> <p>3.4.2.1. Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	3	1	1	0	0	2017-18	2016-17	2015-16	2014-15	2013-14	0	0	1	0	0
2017-18	2016-17	2015-16	2014-15	2013-14																	
3	1	1	0	0																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
0	0	1	0	0																	

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

3.4.3.1. Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
13	15	6	7	5

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
10	8	5	6	4

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

3.4.4.1. Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1382	1413	1377	1445	1384

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
951	1413	1377	1445	1384

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

3.5.1.1. Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
540	43	25	27	16

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
146	41	23	26	14

4.2.6 Percentage per day usage of library by teachers and students

4.2.6.1. Average number of teachers and students using library per day over last one year

Answer before DVV Verification : 9

Answer after DVV Verification: 61

Remark : DVV has made the changes as per entries number of teachers and students using library on 8/8/2017, 7/9/2017, 26/10/2017, 10/11/2017 and 4/1/2018 in logbook.

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

4.4.1.1. Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
18.25	13.69	19.27	21.06	20.62

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
18.50	13.69	19.29	21.19	21.39

Remark : DVV made the changes as per Expenditure incurred on maintenance of physical facilities and academic support facilities (Annual Maintenance contracts of UPS , Annual Maintenance Generator, Building insurance, Repair & Maintenance, vehical Maintenance, cleaning expenses, security exp) for the year 2013-14, 2014-15, 2015-16, and 2017-18.

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

5.1.1.1. Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1267	1305	1265	1298	1225

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1206	1264	1245	1298	1225

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

5.1.4.1. Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
367	128	65	186	116

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
367	128	65	186	116

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) during the last five years.

5.3.1.1. 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-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
7	7	4	4	3

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	2	0	2	0

Remark : DVV has not considered the awards received from University /College Level and Certificate of Appreciation.

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

5.3.3.1. Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
35	18	31	20	35

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
34	16	28	18	31

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

7.1.1.1. Number of gender equity promotion programs organized by the institution year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
3	3	0	0	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	0	0	1

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years 7.1.10.1. Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	2	1	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	1	0	1

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

7.1.11.1. Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
4	5	0	0	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
2	5	1	1	2

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

7.1.17.1. Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
11	17	5	4	4

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
2	5	2	1	00

2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p>Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>324</td> <td>381</td> <td>397</td> <td>341</td> <td>351</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>252</td> <td>297</td> <td>310</td> <td>266</td> <td>273</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	324	381	397	341	351	2017-18	2016-17	2015-16	2014-15	2013-14	252	297	310	266	273
2017-18	2016-17	2015-16	2014-15	2013-14																	
324	381	397	341	351																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
252	297	310	266	273																	
1.3	<p>Number of outgoing / final year students year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>345</td> <td>316</td> <td>261</td> <td>216</td> <td>208</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>385</td> <td>231</td> <td>354</td> <td>213</td> <td>287</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	345	316	261	216	208	2017-18	2016-17	2015-16	2014-15	2013-14	385	231	354	213	287
2017-18	2016-17	2015-16	2014-15	2013-14																	
345	316	261	216	208																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
385	231	354	213	287																	
2.1	Number of full time teachers year-wise during the last five years																				

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
92	99	126	122	121

Answer After DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
92	99	126	122	118

NAAC