



## YEARLY STATUS REPORT - 2020-2021

<b>Part A</b>	
<b>Data of the Institution</b>	
<b>1.Name of the Institution</b>	NMAM INSTITUTE OF TECHNOLOGY (AUTONOMOUS)
• Name of the Head of the institution	Dr. Niranjan N.Chiplunkar
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	08258281263
• Alternate phone No.	9611266900
• Mobile No. (Principal)	9611266900
• Registered e-mail ID (Principal)	principal_nmamit@nitte.edu.in
• Address	NMAM Institute of Technology, Nitte, Karkala Taluk
• City/Town	Nitte
• State/UT	Karnataka
• Pin Code	574110
<b>2.Institutional status</b>	
• Autonomous Status (Provide the date of conferment of Autonomy)	20/12/2007
• Type of Institution	Co-education
• Location	Rural

• Financial Status	<b>Self-financing</b>				
• Name of the IQAC Co-ordinator/Director	<b>Dr. Subrahmanya Bhat K</b>				
• Phone No.	<b>08258281264</b>				
• Mobile No:	<b>09449258142</b>				
• IQAC e-mail ID	<b>subrahmanyabhat@nmitte.edu.in</b>				
<b>3.Website address (Web link of the AQAR (Previous Academic Year)</b>	<a href="https://nmamit.nitte.edu.in/img/iqac/AOAR%202019-20.pdf">https://nmamit.nitte.edu.in/img/iqac/AOAR%202019-20.pdf</a>				
<b>4.Was the Academic Calendar prepared for that year?</b>	<b>Yes</b>				
• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://nmamit.nitte.edu.in/calendar.php">https://nmamit.nitte.edu.in/calendar.php</a>				
<b>5.Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>A</b>	<b>3.11</b>	<b>2017</b>	<b>30/10/2017</b>	<b>29/10/2022</b>
<b>6.Date of Establishment of IQAC</b>			<b>01/02/2001</b>		
<b>7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?</b>					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	
<b>8.Provide details regarding the composition of the IQAC:</b>					
• Upload the latest notification regarding the composition of the IQAC by the HEI	<a href="#">View File</a>				
<b>9.No. of IQAC meetings held during the year</b>	<b>3</b>				
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken	<b>Yes</b>				

uploaded on the institutional website?		
<ul style="list-style-type: none"> <li>If No, please upload the minutes of the meeting(s) and Action Taken Report</li> </ul>	No File Uploaded	
<b>10. Did IQAC receive funding from any funding agency to support its activities during the year?</b>	No	
<ul style="list-style-type: none"> <li>If yes, mention the amount</li> </ul>		
<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
1. Regular meeting of IQAC		
2. Compiled data for NIRF 2021		
3. Initiation and support in preparing the SSR for the 2nd cycle of NAAC accreditation		
4. All academic activities are continuously monitored		
5. To inculcate self-learning capabilities, IQAC encouraged for online certification courses such as NPTEL, Swayam, Course era etc.		
<b>12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:</b>		

Plan of Action	Achievements/Outcomes
1. Measuring the attainment of Course outcomes of all courses of various programmes by the end of the semesters	1. HoDs submitted the course outcome attainments for odd semester and even semester.
2. Starting Internet Radio Station	2. Internet Radio Station named Radio Nitte was inaugurated on 13.04.2021
3. To prepare for VTU LIC visit	3. Successfully completed the VTU LIC visit
4. Starting NCC Naval wing in the campus	4. 6 KAR NAVAL SUB UNIT NCC, Naval Wing was inaugurated on 26.03.2021
5. To participate in NIRF	5. Submitted the data to NIRF and institute evaluated and ranked 133 in Engineering Category(India Rankings 2020).

<b>13. Was the AQAR placed before the statutory body?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>	

Name of the statutory body	Date of meeting(s)
Governing Council	29/01/2022

<b>14. Was the institutional data submitted to AISHE ?</b>	<b>Yes</b>
<ul style="list-style-type: none"> <li>Year</li> </ul>	

Year	Date of Submission
29/01/2021	29/01/2021

### Extended Profile

<b>1. Programme</b>
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1.1	17
Number of programmes offered during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
<b>2.Student</b>	
2.1	5200
Total number of students during the year:	
File Description	Documents
Institutional data in Prescribed format	<a href="#">View File</a>
2.2	1480
Number of outgoing / final year students during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
2.3	5200
Number of students who appeared for the examinations conducted by the institution during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
<b>3.Academic</b>	
3.1	1225
Number of courses in all programmes during the year:	
File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.2	312
Number of full-time teachers during the year:	

File Description	Documents
Institutional Data in Prescribed Format	<a href="#">View File</a>
3.3 Number of sanctioned posts for the year:	312
<b>4.Institution</b>	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	412
4.2 Total number of Classrooms and Seminar halls	88
4.3 Total number of computers on campus for academic purposes	1972
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	2159.09
<b>Part B</b>	
<b>CURRICULAR ASPECTS</b>	
<b>1.1 - Curriculum Design and Development</b>	
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.	
<p>The curriculum of all programmes is developed in accordance with the PO as defined by NBA and PEO's which are in tune with the vision and mission statements of the institute. The process of developing the curriculum and the course content takes into consideration the feedback from different stakeholders, including academic and industrial experts and ensures that it has relevance to the local, regional, national and global developmental needs. The curricula and course content thus framed by the Program Assessment Committee (PAC) and Department Advisory Board (DAB) are deliberated by the Board of Studies meeting and subsequently approved by Academic Council. An overview of the contribution to the developmental needs at various</p>	

levels is given below.

- Local and regional developmental needs: In tune with the local and regional needs such as supporting nearby villages in improving the areas of infrastructure Development-Programmes, Planning & Appraisal, environmental sustainability, utilization of green energy and zero waste generation approach, also supporting small scale industries in the areas of manufacturing process & technology also farmers to feel the presence of modern technology by introducing mobile apps, internet and genetically engineered crops to achieve high yield and productivity. There are several courses in different programmes which enable students to analyse the local and regional needs and provide solution based on their engineering knowledge acquired. At the same time, this mapping gives the students an experience in solving the real-life problems. The project component embedded in specific courses gives leverage to the students to involve in the developmental activities of Nitte and neighbouring regions, in terms of its development and transition to a smart village / city. Substantial field work in the Nitte village paves way for the analysis of physical and socioeconomic factors that influence the development and future growth of the village. In addition, some courses also assist in creating students' awareness of protecting the heritage structures in and around Udupi and Dakshin Kannada districts. Students are often challenged with the problems faced by small scale industries (through Make-a-thon activities related to a variety of courses) and are enthused to provide relevant scientific solutions. Courses that encourage and enhance the family business (e.g. Innovation and Entrepreneurship) also assist in uplifting the socio-economic status of the region. Courses also enable students to interact with farmers and nearby Agriculture University to take up projects to uplift productivity. A few courses bring in expertise from industry. In addition, industrial visits expose the students to real world problems.
- National and global developmental needs: In tune with the national and global developmental needs, the institute has introduced several new programmes in the areas of Artificial Intelligence and Machine Learning, Computer and Communication Engineering, Robotics & Artificial Intelligence and also courses like Internet of Things, Python Programming, Data Science, Data Analytics, Cyber Security, Artificial Intelligence and Machine Learning, Cyber Physical Systems, VLSI Design, Embedded Systems, Automation & Scripting Language and

many others courses have been introduced and offered under various programs. Additionally, several courses are aimed at enhancing the technical and entrepreneurship skills (e.g. Innovation and Entrepreneurship which is an Open Elective offered to students) of students, that are in line with Start-up India policy. This enhances the employability skills of students. Courses that are in-tune with the national mission of 'Make-in-India' pave way for the economic growth of the nation. Aligned with the Digital India mission, courses related to latest computer languages like Python are introduced for almost all circuit branches. Courses on renewable energy, climate change and environmental effects are also offered to sensitize the students to global health. In addition, a range of co-curricular and extra-curricular activities are being organised to ensure the overall development of the students, which has impact on the national and global developmental needs.

File Description	Documents
Upload additional information, if any	<a href="#">View File</a>
Link for additional information	Nil

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

15

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	<a href="#">View File</a>
Details of syllabus revision during the year	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

1194



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

## 1.2 - Academic Flexibility

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

94

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

17

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template)	<a href="#">View File</a>

## 1.3 - Curriculum Enrichment

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

The institution offers "Constitution of India & Professional Ethics" course in first year. The course enables students to get inculcated

about their obligations, responsibilities, privileges rights, duties and get insights on administrative & judicial setup of the country. The above course educate the students on State and Central policies, the fundamental duties, electoral processes, IT act and its jurisdictions, amendment procedures and emergency provisions, Imparts and Educate the engineering students about the scope and aim of professional ethics, their responsibilities, virtues like honesty, integrity and reliability, the risk and liability in the engineering profession, ethical values, responsibilities, and obligations of the professional to the society and the nation.

The institution offers course on "Environmental Studies" in the first year as a mandatory subject to make the students know the living organisms and our environments to ensure sustainable development and improved standard of living.

The various courses offered by the departments catering Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values are listed below

Course Code

Course title

Department / Year

20HU107

Constitution of India and Professional Ethics

First Year Engineering (Common to all B.E Programs)

19BT505

Bioethics, Biosafety & IPR

B.E (Biotechnology)

18BTC105

Forensic Science & Technology

18HU8X69

Philosophy (Open Elective)

Open Elective Course for all B.E

20CS406

Principles And Practices of Software Engineering

B.E (Computer Science & Engineering)

20MCA205

Professional Communication Skills

Master of Computer Architecture

19MBAMM311

Consumer Behavior

Master of Business Administrations

19MBABF341

Banking Specialization

19MBABF342

Branch Management & Operational Risk Management

19MBA41

Business Ethics and Corporate Governance

19MBAFM422

Tax Management

19MBABF444

Sales and Service Orientation

19MBAIT452

IT Business Development and Contracting

20MBA11

Individuals and Organization

20MBA16

Financial Statements - Analysis and Reporting

20MBA21

Managing Organizations

20MBA23

Research and Quantitative Methods - II

Course Code

Course title

Department / Year

20CV113

Environmental Studies

First Year Engineering (Common to all B.E Programs)

18CV8X07

Environmental Impact Assessment

Open Elective Course for all B. E

18ME8X08

Industrial Pollution Control

18EE8X10

Non-Conventional Energy Systems

18BT8X42

Solid Waste Management

18CV8X67

**Disaster Management**

18CV8X73

**Environmental Hygiene, Sanitation And Waste Management**

19BTC114

**Environmental Biotechnology****B.E (Biotechnology)**

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

10

File Description	Documents
List of value-added courses	<a href="#">View File</a>
Brochure or any other document relating to value-added courses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

531

File Description	Documents
List of students enrolled	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

<b>1.3.4 - Number of students undertaking field work/projects/ internships / student projects</b>	
2373	
File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	<a href="#">View File</a>
Any additional information	No File Uploaded
<b>1.4 - Feedback System</b>	
<b>1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni</b>	A. All 4 of the above
File Description	Documents
Provide the URL for stakeholders' feedback report	<a href="https://nmamit.nitte.edu.in/IOAC/AOAR/2020-21/CRITERION%201/1.4.2/2021_1.4.pdf">https://nmamit.nitte.edu.in/IOAC/AOAR/2020-21/CRITERION 1/1.4.2/2021_1.4.pdf</a>
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	<a href="#">View File</a>
Any additional information	No File Uploaded
<b>1.4.2 - The feedback system of the Institution comprises the following</b>	A. Feedback collected, analysed and action taken made available on the website
File Description	Documents
Provide URL for stakeholders' feedback report	<a href="https://nmamit.nitte.edu.in/IOAC/AOAR/2020-21/CRITERION%201/1.4.2/2021_1.4.pdf">https://nmamit.nitte.edu.in/IOAC/AOAR/2020-21/CRITERION 1/1.4.2/2021_1.4.pdf</a>
Any additional information	<a href="#">View File</a>
<b>TEACHING-LEARNING AND EVALUATION</b>	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment of Students</b>	

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

1235

File Description	Documents
Any additional information	<a href="#">View File</a>
Institutional data in prescribed format	<a href="#">View File</a>

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

412

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

**2.2 - Catering to Student Diversity**

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

**Assessment of Students' learning levels :**

Students are classified as Advanced learners and Slow learners.

- Students scoring less than 50% of marks in MSE-1 are considered as slow learners in that subject.
- Slow learners are identified at the department level, including at the first year, by the first year coordinator. Slow learners are identified after their first mid semester examinations and are continuously monitored and additional classes are conducted to help them.
- In the department, slow learners are identified and monitored by arranging remedial classes for them in difficult courses. This is monitored not only at the department level, but also at the institution level by a senior Professor.
- Students having backlogs are also considered as slow learners.
- Students scoring more than 8.25 CGPA are considered as

advanced learners for the benefit of executing the option to select a dream/core company in the placement process.

- Students who show interest in carrying out extra curricular works/projects and active participants in department and technical association activity are also considered as advanced learners.

Special programs for Slow Learners and Advanced Learners:

(a) Slow learners :

- Additional classes are arranged after MSE-1 and MSE-2 for the benefit of slow learners in the first year and in higher semesters. It was ensured that all slow learners attend these classes.
- Tutorial classes are used to solve additional problems in order to help the slow learners, in selected subjects, at the department level.
- Peer learning is also facilitated to help the slow learners.

(b) Advanced learners :

- Students are encouraged to take up audit courses, value added courses and MOOC courses from NPTEL and COURSERA.
- Students are encouraged to work in start-ups, centres of excellence and in incubation centres.
- Students are encouraged to take up Summer Internships / Research internships in the institution and other institutions and organizations of repute.
- Students are encouraged to take up fast track semester in eighth semester in industries and R & D organizations
- Students are encouraged to participate in departmental activities like seminars, conferences, FDPs in various capacities as volunteers, organizing committee members and as participants.
- Students are encouraged to be a part of research activities of the department and are encouraged to write research papers in reputed journals and conferences.
- They are encouraged to participate in different technical and hobby clubs and participate in regional / national level events, competitions and also in Hackathons etc.



- Students are permitted to run their own department branch associations to do activities pertaining to their holistic development based on which they organize a mega annual techno-cultural festival at the national level.
- Student Exchange programme/Summer internship/Internships abroad such as in Ritsumeikan University Japan, University of Antwerp Belgium, Swinburne University Sarawak campus Malaysia, National University of Singapore, University of Aachen Germany etc.
- AICTE's visit to Atal Tunnel, AICTE Intershala internship and AICTE's MITACs Canadian paid internship etc.
- Students are encouraged to attend events on IPR, Design thinking; Entrepreneurship organized by the Institution Innovation Council (IIC) and also by the institution Patent Cell. Students are encouraged to appear in IPTSE examinations.
- Special industry visits and expert talks are arranged on Entrepreneurships by EDC cell of the institute for final year students.
- Students are also encouraged to participate in skill programmes organized by reputed agencies such as ICT academy and to participate in national level competitions.
- Students are also given talk by experts on holistic development pertaining to gender bias, drug abuse, ragging, yoga, spic-Macay, energy saving etc.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://nmamit.nitte.edu.in/IQAC/AOAR/2020-21/CRITERION%202/2.2.1/2.2.1.pdf">https://nmamit.nitte.edu.in/IQAC/AOAR/2020-21/CRITERION 2/2.2.1/2.2.1.pdf</a>

**2.2.2 - Student – Teacher (full-time) ratio**

Year	Number of Students	Number of Teachers
31/12/2021	4888	338

File Description	Documents
Upload any additional information	<a href="#">View File</a>

**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:

**Experiential learning:** ICT in teaching-learning process including use of simulation software, Internships in industries / organizations (either in online or offline mode), industry-driven laboratories, industrial / field visits, summer internships in Centres of Excellence in different departments. Student's participation in different hobby clubs, student's participation in skill development programs, seminars, guest lectures, technical fests etc.

Subhashini English Lab is used for the training of students in English speaking skills. First year students will attend this lab to improve their speaking and listening skills. The lab will have tasks as a part of the evaluation process. The software used in this lab will provide the live English speaking experience to the students.

**Participative learning:** Seminars / workshops, model development, projects etc., use of case studies in teaching management courses, quizzes, presentation of research papers in conferences and publishing in journals, debates, hackathons, boot camps, survey camps, students taking up MOOC courses from platforms like NPTEL, COURSERA etc., self-study component in a few courses.

**Project based learning:** Mini projects, major projects, development of innovative models, simulation studies, laboratories etc., adoption of PBL in a few courses and increasing the weightage given in CIE, hobby-based projects and their exhibition.

**Active learning:** Development of mathematical models, implementation of various problems using Python, case study, brainstorming and

group discussions, establishment of industry driven laboratories.

**Problem solving methodologies:** Regular assignment in courses, regular quizzes, mini projects, case studies, tutorials in case of problem-oriented courses, working on community projects to understand the real-life problems.

**Interactive learning for Employability Skill Development:** Use of platforms such as I-nurture, Reference globe will give an exposure to the students in problem solving skills and for aptitude related questions, for enhancing placements capabilities through fixed slots in the Time Table.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	<a href="https://nmamit.nitte.edu.in/IOAC/AQAR_2020-21/CRITERION_2/2.3.1/2.3.1.pdf">https://nmamit.nitte.edu.in/IOAC/AQAR_2020-21/CRITERION_2/2.3.1/2.3.1.pdf</a>

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

Use of ICT enabled tools is a necessity in the pandemic context. Teachers make use of these tools and resources very effectively.

- This includes the effective use of Moodle (LMS) for scheduling and conducting online classes, uploading course content in the form of course material and ppt, communicating to the students by sharing information about various circulars from the institution and department. Regular updating of students with information about the institution and all academic matters. This platform is also used for evaluation and assessment for conducting quizzes, submission of assignments, conducting mid semester examinations and also using it in the conduction of online final examinations either in the descriptive mode or MCQ format.
- Online delivery of lectures through platforms like Microsoft Teams, Google Meet, Impartus Zoom and Cisco Webex is also used.
- Class/Laboratory lectures are recorded, edited using open-source software for audio recording /editing, such as Audacity, OBS Studio and LossLess video/audio editor, presented in MOOC format and uploaded to YouTube.
- Further students are encouraged to use virtual laboratory services provided by NITK, Surathkal of which the Institution

is a participating member. Faculty record laboratory sessions (in terms of experiments conducted) and share it with students through Moodle to provide information about the experiments in different lab courses.

- Faculty members were/are trained through VTU, ICT academy and other agencies to enhance effectiveness of ICT teaching (Many faculty members have certificates)
- Faculty training: Internal FDP of smart board training under TEQIP-III.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	<a href="http://guru.nmamit.in/">http://guru.nmamit.in/</a>
Upload any additional information	<a href="#">View File</a>

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

#### 2.3.3.1 - Number of mentors

53

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	<a href="#">View File</a>
Circulars with regard to assigning mentors to mentees	<a href="#">View File</a>

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

The COE, in consultation with the Dean (Academics) and the principal in the beginning of each semester prepares the academic calendar. The academic calendar adheres to the stipulations specified by the affiliating University in terms of number of working days, number of days for examinations etc., and also taking care of the public holidays. Once the Academic calendar is approved by the Academic Council, it will be circulated for the information of all concerned through modes like email, notice board circular, website, Moodle, college calendar etc. The Academic calendar includes odd, even and supplementary semester details.

- At the department level, based on the academic calendar and

prescribed syllabus, the faculty members prepare the teaching plan (lesson plan) specifying the course objectives, course outcomes, number of hours of engagement, continuous internal evaluation (CIE) details, scheme of evaluation for the CIE, final semester examinations, details of text books and reference books. After approval by the respective HODs and Dean (Academics), the teaching plan for every course (lesson plan) is shared with students in the form of a college calendar, either in soft copy or hard copy format and individual faculty share it with their respective students in their class. The dissemination of the calendar among the students helps them to be well prepared and take advantage of the flexibility provided.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	<a href="#">View File</a>

## 2.4 - Teacher Profile and Quality

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

338

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	<a href="#">View File</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>
Any additional information	No File Uploaded

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

130

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

**teachers' total teaching experience in the current institution)**

10

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	<a href="#">View File</a>
Any additional information	No File Uploaded

**2.5 - Evaluation Process and Reforms****2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year**

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

290

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

**Processes/Procedures integrating IT:**

NMAMIT effectively uses IT for managing various processes, including examinations. The following processes are managed:

**1. Course registration**

2. Student attendance, CIE marks, progress report and sending report to parents
3. Daily absentee student details shared through SMS
4. Invigilation duty selection and allotment
5. Valuation centre work
6. Revaluation registration
7. Admission Ticket (hall ticket) generation, coding and decoding process concerning valuation, result sheets generation and grade card generation and printing
8. Makeup / supplementary examinations registration.

**Examination procedures:**

- An examination manual has been drafted, approved by the Academic Council and is being followed, which documents the procedures adopted in the planning, organizing, coordinating and execution of examination at the institute. This covers the entire examination process for both UG & PG courses offered in the Institution.
- To conduct the examinations in a fair and transparent manner, there is a need to detect and book malpractice cases.
- Finally, important formats of form required to be filled by the students and the examination officials have been documented. It is available at different locations depending upon the end users like students and faculty.
- Questions in the question papers are framed strictly based on Bloom's taxonomy. From the academic year 2018-19, based on the AICTE Examination Reforms Manual, PO and CO are included in the question papers of Mid Semester Examination (MSE) and Semester End Examination (SEE).

**Continuous Internal Assessment (CIA) System:**

CIA is an important component of the assessment system followed at NMAMIT. It has 50 % weightage in the overall assessment and helps to keep track of the student performance during the semester. It mainly includes three components in all the theory courses, namely two mid semester examinations and the internal evaluation components, which can include Assignments, Quizzes, Course Projects supporting Project Based learning, Activities supporting active learning, Mini Projects etc.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://nmamit.nitte.edu.in/IQAC/AQAR/2020-21/CRITERION_2/2.5.3/2.5.3.pdf">https://nmamit.nitte.edu.in/IQAC/AQAR/2020-21/CRITERION_2/2.5.3/2.5.3.pdf</a>

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

- For each program of study, the department needs to formulate Program Specific Outcomes (PSO). These are formulated through wide consultation with the stakeholders namely faculty, alumni, industry representatives etc. The Program Educational Objectives (PEO) are framed based on the inputs from faculty, alumni and industry representatives considering the latest technology trends, job demands and societal needs. They are communicated to the faculty in the department meeting and through email.
- Based on the program outcomes, faculty have to write course outcomes for the courses they teach. The course outcomes need to be fixed depending upon the number of credits and also whether it is a theory or laboratory course. The course outcomes are framed based on the Bloom's Taxonomy levels.
- The POs are disseminated to all the stakeholders through display boards at prominent locations in the department, college calendar, college website, department classrooms, laboratories, HOD cabin, college Moodle etc. The POs, COs and the mapping between the CO and PO are made available in the syllabus book and Moodle for dissemination to the students. Further individual faculty inform about the same in their respective classes to their students before the commencement of the classes in each semester. Further details of CO, PO, PSO and PEOs, their mapping and attainment are available in the course file for each course (both lab and theory) as well as for technical seminar, internship, mini and major project with course instructor / coordinator.

All these details stated above are displayed on the website & syllabus book and appropriately communicated to students and teachers.



File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Link for additional Information	Nil

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

- The Program Outcomes (PO) and Program Specific Outcome (PSO) of a program are attained through the COs of all courses (both theory and lab) taught in a program and other components like technical seminar presentation, mini project, major project and internships. There are two methods to evaluate the COs and POs attainment.
  - Direct Assessment - It is carried out through evaluation of Course Outcome (CO) attainment of each course and POs and PSOs attainment of the program.
  - Indirect Assessment - It is carried out through evaluation of the student responses to Course Exit survey administered for each course and Program Exit survey administered to outgoing batch of students each year. This will ascertain the level of understanding and approval of the students of different course outcomes, PO and PSOs.
- The evaluation methods are classified as CIE (Continuous Internal Evaluation) and Semester End Examination (SEE). The overall attainment of a CO is measured with equal weightage for CIE & SEE attainment levels.
- Since the values of Indirect CO, PO and PSO attainments are very high, only Direct assessment values are considered for the gap analysis.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://nmamit.nitte.edu.in/IOAC/AOAR/2020-21/CRITERION%202.6.2/2.6.2.pdf">https://nmamit.nitte.edu.in/IOAC/AOAR/2020-21/CRITERION 2/2.6.2/2.6.2.pdf</a>

### 2.6.3 - Pass Percentage of students

#### 2.6.3.1 - Total number of final year students who passed in the examinations conducted by

Institution	
1451	
File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	Nil
<b>2.7 - Student Satisfaction Survey</b>	
<b>2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink</b>	
<a href="https://nmamit.nitte.edu.in/IQAC/AQAR%202020-21/CRITERION%202/2.7.1/2.7.1%20SSSReport_20-21.pdf">https://nmamit.nitte.edu.in/IQAC/AQAR%202020-21/CRITERION%202/2.7.1/2.7.1%20SSSReport_20-21.pdf</a>	
<b>RESEARCH, INNOVATIONS AND EXTENSION</b>	
<b>3.1 - Promotion of Research and Facilities</b>	
3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented	
<p>NMAM Institute of Technology accords high priority for the promotion of quality research. Accordingly, the Institution has a well-defined policy for promoting research and regularly updating the research infrastructure. The departments of the Institution, in their annual budgets, allocate adequate resources for frequently update their research facilities by procuring and maintaining the state of the art equipment and instruments in different laboratories and centers of excellence. The institution has established a center for research and innovation for housing research facilities.</p> <p>Towards attaining the objective of promoting research culture in the institute, the following policies have been formulated and uploaded in the institutional website.</p> <ul style="list-style-type: none"> <li>• To increase the number of faculty members with PhD</li> <li>• To increase the full-time Ph.D. scholars</li> <li>• To increase the number of Ph.D. research scholars at NMAMIT research centers (VTU-Affiliated)</li> </ul>	

- To increase the number of publications by faculty members in peer-reviewed and high impact journals and conferences.
- To Create independent research activity in the campus
- To Provide wider research exposure to faculty members

The research policies have been implemented effectively in a phased manner, the following are salient points:

- **Research incentives:** Research incentives are given to faculty members for publication based on the quality of Publications. Incentives are also given for other publication items like Book, Book Chapter, Patent, etc. Financial support is also being provided to file the patent.
- **Ph.D. Faculty:** Faculty members are given additional allowance on completion of course work of their PhD and is withdrawn after completion of their PhD, by hiking the basic pay. Faculty members are deputed with full salary to reputed institutions to pursue full-time Ph.D.
- **Publication Requirements:** Faculty members are expected to publish a certain number of quality publications for gaining promotion and performance incentives.
- **Financial support:** Financial support is provided to interact with research scholars from India and abroad. Encouraging institutional research scholars to work at NMAMIT, Nitte.
- **Opportunity for Higher studies:** Providing post-doctoral fellowship to outside scholars in the institution for international research exposure and encouraging faculty members to apply for post-doctoral opportunities overseas.
- **Research funding:** Encouraging faculty members to prepare project proposals for joint funding from an external agency, providing seed money to researchers to make up for the shortfall in funding obtained from external agency and also for supporting budding researchers.
- **Financial Support for full time Ph.D:** To increase full-time Ph.D scholars by paying attractive stipend. The Ph.D. scholars who have been given a stipend are expected to work for research in the institution after finishing their Ph.D.

In addition to the above several other steps have been implemented to meet research policy requirements, such as providing sabbatical for faculty members, undertaking collaborative research, creating the central facilities, developing new labs at the department level, etc.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	<a href="#">View File</a>
Provide URL of policy document on promotion of research uploaded on the website	<a href="https://nmamit.nitte.edu.in/research/researchpromotionpolicy.pdf">https://nmamit.nitte.edu.in/research/researchpromotionpolicy.pdf</a>
Any additional information	<a href="#">View File</a>

### 3.1.2 - The institution provides seed money to its teachers for research

#### 3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

10,50,000

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

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

03

File Description	Documents
e-copies of the award letters of the teachers	<a href="#">View File</a>
List of teachers and details of their international fellowship(s)	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.2 - Resource Mobilization for Research****3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)****68.319**

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	<a href="#">View File</a>
List of projects and grant details	<a href="#">View File</a>
Any additional information	No File Uploaded

**3.2.2 - Number of teachers having research projects during the year****8**

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	<a href="#">View File</a>

**3.2.3 - Number of teachers recognised as research guides****119**

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	No File Uploaded
Institutional data in Prescribed format	<a href="#">View File</a>

**3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year****6**

File Description	Documents
Supporting document from Funding Agencies	<a href="#">View File</a>
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

### 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

NMAMIT always aspires to ensure that, students once graduated become ambassadors of the institute showing responsibility towards ensuring that whatever activity is carried out, importance is given towards societal wellbeing. In connection with this, the college has established several programs, which are conducted annually in the neighborhood of the institution. The programs are as follows:

- Raitbandhu project
- Swacchh Bharat Abhiyan
- Plantation program
- Blood donation camp
- Polio Abhiyan
- Distribution of food kit to poor in Nitte during lockdown
- Yoga day, Constitution day, etc.

The programs are carried out by the NSS unit of NMAMIT, Red Cross unit and Rotary club of NMAMIT. The speech aid program, which is conducted in collaboration with Chethana Special School and Vijetha Special School aims at identifying linguistic problems in children.

Impact: The impact of this program is that out of about 120 children, 40 children were recommended for additional treatment. A total of 27 faculty of NMAMIT have participated in these programs. The student participants were enriched by the experience and they have been able to identify so many students with linguistic problems.

The plantation program is conducted every year under the joint partnership of the NSS unit and Biotechnology student's Association. NMAMIT has in its campus, a bio-fuel information, demonstration and

research center, which houses equipment for converting or extracting biodiesel from oilseeds. Normally oil seeds from oil seed-bearing plants like pongamia, honne, etc. are used. The plantation program mainly feeds on this idea of creating an eco-system, wherein large mangroves are grown of oil seed-bearing plants. Every year during the plantation program a large number of students plant seeding of such plants in and around the campus.

Impact: This would provide input in the form of feedstock for the bio-diesel center. The large number of students involved in the process becomes aware of the problems associated with petroleum fuel types and also about method available for overcoming the debilitating effect of petroleum-based fossil fuels.

Swachh Bharat Abhiyan, initiated by the honorable prime minister has provided an opportunity for NMAMIT to conduct the program with a large number of student participation to ensure not only to keep the surrounding of the campus clean and also educate the local people about the disposal of plastics and other solid waste. The program is conducted three times during the year and a good number of students participate in it.

Impact: This activity has resulted in education of students in the cleanliness drive and also awareness about being a responsible citizen. During the program students have to interact with the local community and they have been able to express themselves & improve communication skills.

International Yoga Day has been conducted every year to create awareness among the younger generation about this ancient practice. A good number of students and staff involved have experienced the goodness of the practice of yoga and pranayama. The yoga day has been initiated to improve the health of young people of the country and also provides an opportunity for extra energy that young students can possess and develop good habits.

Impact: At NMAMIT, a large number of students and faculty members participate in the program and as a result, it is found that some of them have been able to give up on bad habits.

India had gone through a horrendous experience during the Covid-19 pandemic lockdown; it was a difficult period both for common people and polity. There were difficulties in delivering food to the needy

in the far-flung places of Nitte. Seeing the difficulty, they faced, NMAMIT students of the Rotaract club delivered food to remote places.

**Impact:** As a result, students have been able to correlate themselves with difficulties people face. As per the feedback given by the students, the experiences were invigorating and would stand students in good stead during their future life.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

File Description	Documents
Report of the events	<a href="#">View File</a>
List of workshops/seminars conducted during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.4 - Research Publications and Awards

**3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software**

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>



**3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year****3.4.2.1 - Number of PhD students registered during the year**

18

File Description	Documents
URL to the research page on HEI website	<a href="https://nmamit.nitte.edu.in/research-administration.php">https://nmamit.nitte.edu.in/research-administration.php</a>
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	<a href="#">View File</a>
Any additional information	No File Uploaded

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

0.80

File Description	Documents
List of research papers by title, author, department, and year of publication	<a href="#">View File</a>
Any additional information	No File Uploaded

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

0.77

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

**3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed****3.4.5.1 - Total number of Citations in Scopus during the year**

231

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

### 3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

#### 3.4.6.1 - h-index of Scopus during the year

32

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.5 - Consultancy

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

43.74

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	<a href="#">View File</a>
List of consultants and revenue generated by them	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

Rs. 4,98,511

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<a href="#">View File</a>
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

NMAMIT always aspires to ensure that, students once graduated become ambassadors of the institute showing responsibility towards ensuring that whatever activity is carried out, importance is given towards societal well being. In connection with this the college has established several programs, which are conducted annually in the neighborhood of the institution. The programs are as follows.

? Rait bandhu project

? Polio Abhiyan

? Distribution of food kit to poor Nitte during lockdown

? Swatch Bharat Abhiyan

? Plantation program

? Blood donation camp

? Yoga day, constitution day, etc.

The programs are carried out by the NSS unit of NMAMIT, Red Cross unit, Rotary club of NMAMIT. The speech aid program which is conducted in collaboration with Chaitanya special school and Vijetha special school aims at identifying a linguistic problem in children.

The impact of this program is that out of about 120 children, 40 children were recommended for additional treatment. A total of 27 numbers of NMAMIT have participated along with the faculty of humanities. The student participants were enriched by the experience and they have been able to identify so many students with linguistic problems.

The plantation program is conducted every year under the joint partnership of the NSS unit and Biotechnology students. NMAMIT has in its campus, a bio-fuel information, demonstration and research center, which houses equipment for converting or extracting biodiesel from oilseeds. Normally oil seeds from oil seed-bearing plants like Pongamia, honne, etc. are used. The plantation program mainly feeds on this idea of creating an eco-system, wherein large mangroves are grown of oil seed-bearing plants. Every year during the plantation program a large number of students plant seeding of such plants in and around the campus. This would provide input in the form of feedstock for the bio-diesel center. The large number of students involved in the process became aware of the problems associated with petroleum fuel types and also about method available for overcoming the debilitating effect of petroleum-based fuels.

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International yoga day has been conducted every year to create awareness among the younger generation about this ancient practice. A good number of students and staff involved have experienced the goodness of the practice of yoga and pranayama. The yoga day was initiated to improve the health of young people of the country and also provides an opportunity for extra energy thus young students can possess and develop good habits. At NMAMIT a large number of students and faculty members participated in the program and as a result, it is found that some of them have been able to give up on bad habits.

Indian had gone through the horrendous experience during the

covid-19 pandemic lockdown; it was a difficult period both for common people and polity. There were difficulties in delivering food to the needy in the far-flung places of Nitte. Seeing the difficulty they face, NMAMIT students of Rotaract club delivered food to remote places, as a result, students have been able to correlate themselves with difficulties people face. As per the feedback given by the students, the experiences were invigorating and would stand students in good stead during their future life.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### 3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

01

File Description	Documents
Number of awards for extension activities in during the year	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>
Any additional information	No File Uploaded

### 3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

14

File Description	Documents
Reports of the events organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

948

File Description	Documents
Reports of the events	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 3.7 - Collaboration

#### 3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

365

File Description	Documents
Copies of documents highlighting collaboration	<a href="#">View File</a>
Any additional information	No File Uploaded

#### 3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

10

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View File</a>
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	<a href="#">View File</a>
Any additional information	No File Uploaded

### INFRASTRUCTURE AND LEARNING RESOURCES

#### 4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Institute is located beside the foot hill of western ghat, spread out in 52 acres of area. Academic activities are taking place in academic blocks namely APJ Kalam, C V Raman, S Ramanujan, Sir M V and Management Studies. Infrastructure is developed as per the AICTE norms. Classrooms are equipped with ICT facilities, LAN/Wi-Fi. Smart boards are made available in selected class rooms and seminar halls.

CCTV are installed in an academic area for surveillance. Central library facilities with access to books, journals, e learning resources. Department level library is also set up for quick reference. Turnitin, the plagiarism check tool is available to all staff and student for free of cost. The campus is connected with 1.5 Gbps internet access. Centers of Excellence are established across the various departments. Industry sponsored laboratories provide the exposure to the students in the respective domain. Research and innovation Centreenables students to translate feasible ideas into projects. As per the New education policy, skill development labs are introduced to inculcate skill-based learning for the students. Air-conditioned seminar halls and auditoriums with LAN, Wi-Fi facilities are available. Open air auditorium is available to carry out training, placement and extra curriculum activities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

For the all-round development of students and staff, NMAMIT has provided ample scope for extra-curricular (cultural), sports and extension activities over the years.

#### Facilities for Cultural Activities:

NMAMIT organizes cultural fest "INCRIDEA" every year to provide a platform for the students from all over the state to showcase their talent. During this event, a notable icon from any of the cultural fields is invited to the institute. It will be hosted in the open-air auditorium "Sadananda" (Capacity: 5000 people), "SWARNA" open auditorium (Capacity: 1000 people), "Sambhram" Air-conditioned auditorium (Capacity: 400 people), "Shambhavi" hall (capacity: 160 people). The open-air auditorium has facilities such as ramps, and audio / video facilities.

Students, staff and faculties have excelled in various extra-curricular activities, participate in state and National level competitions and won awards and prizes.

For the interested staff/students, institute offers physical,

mental, and spiritual practices viz., yoga, meditation practices and recreation classes to promote their mental and physical health.

Sophisticated fitness centre with modern equipment's was established in the institute campus.

### Sports Facilities

The department of physical education aims to provide the students staff and faculty with an extensive range of sports recreation and leisure activities include both outdoor and indoor games. Several Sports Fest is conducted in the institute where a number of teams from across the country participate.

Because of state-of-the-art facilities, students have excelled in many tournaments of university / state and national level.

### Facility to conduct sports and cultural

Activities- Year of establishment Area (Sqm) Indoor Stadium (GF & FF) 1990 1378.00 Pavilion Building 2013, 2016 442.30 Open Air Auditorium Sadananda 2014 2717.00 Gymnasium Centre 2014 346.00 Sports Complex Cricket Ground 2014 29400.00 Sports Complex Football Ground 2016 29400.00 Sports Complex Hockey Ground 2016 11000.00 Seminar Halls 2009 Varying from 125 Sqm

File Description	Documents
Geotagged pictures	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nmamit.nitte.edu.in/auditorium.php">https://nmamit.nitte.edu.in/auditorium.php</a>

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

95



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

1641

File Description	Documents
Upload audited utilization statements	<a href="#">View File</a>
Details of Expenditure, excluding salary, during the years	<a href="#">View File</a>
Any additional information	No File Uploaded

## 4.2 - Library as a Learning Resource

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

The Institution has a Central Library in S Ramanujanblock with a total area of 3100 sqm and has a seating capacity of 750. It is automated using KOHALibrary software that supports inhouse operations to maintain the database of new books and borrowed books, organise and handle books systematicallywith intranet IP 172.16.15.241:8100. Remote access is provided with public IP - BSNL: 117.236.190.215 and JIO:115:243:167:82.

The library has a rich collection of 38,976 book titles and 86,586 book volumes, and subscription to more than 7361 e-journals under VTU Consortium with static IP range 210.212.195.230. Access to 10,000 e-Books and lacs of journal articles are available in Knimbus.

The library resources are completely Bar Coded. ILMS package facilitates book self-check-in /check-out with details of library documents and due dates. The library offers computerized Catalogue Search Services for user community through the On-line Public Access Catalogue (OPAC). NPTEL video content and web courses are hosted in local Network Attached Storage (NAS) with IP 172.16.15.242 and <http://172.16.2.10/services> / E-Vidya(Video Tutorials). Video

lectures by our faculty are also available in E-Vidya service.

Digital Library is equipped with 25 desktops with Wi-Fi and LAN enabled with a speed of 310 Mbps. It also provides Plagiarism checking facility using Turnitin web tool and grammar checker using NetAnalytiks-Sententia. DELNET is used for Inter Library Loan (ILL). sLibrary webpage (<https://nmamit.nitte.edu.in/library.php>) provides access to various services giving detailed information about library, rules and regulations and necessary contact details.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://nmamit.nitte.edu.in/sports.php">https://nmamit.nitte.edu.in/sports.php</a>

**4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources**

**A. Any 4 or more of the above**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

**53.60**

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

**4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)**

**4.2.4.1 - Number of teachers and students using the library per day during the year**

9200

File Description	Documents
Upload details of library usage by teachers and students	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**4.3 - IT Infrastructure**

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

The Institute IT policy maintains, secures, and ensures legal and appropriate use of Information Technology infrastructure established by the Institute on the campus. This policy establishes strategies and confidentiality, integrity, and availability of the information assets that are accessed, created, managed, and/or controlled by the Institute.

The institute adheres to the following IT policies:

1. Desktop distribution, hardware installation and maintenance policy
2. Software Installation and Licensing Policy
3. Acceptable Usage of Network (Intranet & Internet) Policy
4. Acceptable Use, Email/E-mail Account Policy
5. Access Controls, Account Policy

The institute has an IT team headed by System Administrator to maintain the IT Infrastructure. Institution has Intranet and Internet services, eLearning server (Moodle), Student Information server (Smart Campus), and Surveillance server. Complete IT infrastructure in the campus is supported with UPS power backup.

For the year 2020-21 an annual budget of Rs. 1.95 Crorefor updating / purchasing / upgrading Computers, Software, Licences, Server and Projectors, Wifi routers andLAN connectivity.The number of computers available in the year 2020-21 is 1972 for a total 5338 students with the ratio of one computer for every2.7 students. Wi-Fi facility is provided in the college campus and hostels through 164 access

points. The internet speed is 1.5Gbps. Access to internet is controlled through UTM.

All classrooms are provided with LCD projector. The institution has facilities for e-content development with a media centre for academic guidance and learning.

Through the Moodle server, faculties share the syllabus/study materials with students and also conduct on-line task/quiz/assignments. Smart Campus server is used to maintain data of students' attendance and Internal Assessment marks. Class rooms and academic areas are equipped with CC cameras. Biometric system is used for recording attendance of staff members and students staying in the hostels. The institution library is automated using integrated library system software (KOHA). Access to various e-journals is provided through VTU e-consortium.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

#### 4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4404	1972

File Description	Documents
Upload any additional information	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus**      A. 750 Mbps

File Description	Documents
Details of bandwidth available in the Institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded

**4.3.4 - Institution has facilities for e-content**      B. Any three of the above

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

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

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

**444**

File Description	Documents
Audited statements of accounts	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

At Institute level maintenance of class room infrastructure includes repair, replacement and maintain the physical infrastructure's concerned department need to register their request with Resident Engineer's office. Once complaint is registered, the maintenance task has been carried out.

The Resident engineer's office in the institute ensures timely maintenance of the physical, academic and support facilities like laboratory, library, sports, indoor stadium, computers, classrooms etc., by centralized mechanism.

#### Laboratories:

Laboratories in all the departments of the Institute is well equipped with state of art facilities and well maintained to conduct the lab experiments. The equipment and machineries in the

laboratory/workshop are maintained by well-trained technical staff.

#### Classrooms:

The hygiene and cleanliness along with COVID 19 protocols are maintained with the support staff (Housekeeping) assigned to a designated location.

#### IT Infrastructure:

The system administrator is the person in charge of the IT infrastructure in the Institute. He along with his team of technical staff and lab assistants ensures effective and efficient maintenance of the IT Infrastructure.

#### Electrical Works and Maintenance:

The College has a very strong in-house team of well-trained electricians and plumbers who maintain the IT and electrical services such as UPS backup, Generator, Air Conditioners, CCTV cameras, LCD Projectors, lift-maintenance, STP Plant, Water Purifiers.

**Library facility:** The Library headed by a qualified Librarian and ably supported by library staff ensures smooth and efficient functioning of the Library. He also tackles issues relating to library facilities. Sports and Ambulance facility is also maintained by the college.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

### STUDENT SUPPORT AND PROGRESSION

#### 5.1 - Student Support

##### 5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1269

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	<a href="#">View File</a>
Upload any additional information	No File Uploaded

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

605

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	<a href="#">View File</a>

**5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology**

A. All of the above

File Description	Documents
Link to Institutional website	Nil
Details of capability development and schemes	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

768

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

**5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees**

**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	<a href="#">View File</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

## 5.2 - Student Progression

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

**708**

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<b>No File Uploaded</b>

### 5.2.2 - Number of outgoing students progressing to higher education



32

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Details of students who went for higher education	<a href="#">View File</a>
Any additional information	No File Uploaded

### 5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

#### 5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

28

File Description	Documents
Upload supporting data for students/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 5.3 - Student Participation and Activities

#### 5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

21

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

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

##### Students' Council:

NMAMIT facilitates and encourages student participation in all its endeavours. Their feedback and suggestions are considered with utmost importance. Students select active student members for the

core group (which is called student council) to organize all the co-curricular and extracurricular activities headed by the Dean Student Welfare. Each activity is mentored and supported by the faculty members. The required funding to conduct events is met by the Institution.

NMAMIT student community has a practice of electing student representatives for each class of students and electing for branch association office bearers. These class representatives coordinate all the academic activities and other facilities required for the conduction of classes.

In addition to these committees, the institution has various student clubs such as, Grey Matter (Quiz Club), Rachana (Art), Authorcraft (Poetry), Yuj For Life (Yoga), Annadana (Food Donation), Aura (Helping Hand), Clicz:Photography, Kalanjali (Dance), Stereo (Singing), Soft skills and Communication Association, Thaleem- The Drama (Acting), and ISIRI Kannada Samithi.

Following are the committees formed by the institution with student representatives in each committee:

#### Academic Committees:

1. **Governing Council:** The Governing Council includes a post graduate student and an undergraduate student representative. These students are invited for the meetings and sought opinions and suggestions.
2. **Internal Quality Assurance Cell (IQAC):** The student representatives present in IQAC ensure that the students' view points are considered while framing the quality policies of the Institution.
3. **Class committee:** The student representatives of each class coordinate the academic activities and other extracurricular and cocurricular activities. They act as a grievance redressal at the department level.
4. **Library Committee:** Library and Literary Club (Library working committee) of NMAMIT has conducting "Library Awareness Quiz" and "Library Week" Programmes every year. During the library week programme conducting various literary competitions. The purpose of this programme is to create awareness about library services, library resources, increase the library utilization and enhance the writing habits and general knowledge of the users. On the basis of suggestions received from the committee

members we improve the library services.

5. Magazine Committee: College Magazine committee has Chief Editor, Editor, Coordinator and student members as well as faculty members. It brings out College Magazine "Nidarshan" every year which exhibits the creative abilities of students as well as faculty members. It carries information about the academic, cocurricular and extracurricular activities, information about alumni activities in the institution of that yearlong with the database of final year students. Student members have active role in collecting database and articles.

#### Administrative Committees:

1. Anti-ragging committee: There are more than 100 student representatives in this committee along with faculty members. They ensure awareness and vigilance to maintain zero ragging atmosphere in the Institute Campus.
2. Anti-Sexual Harassment Committee: The anti-sexual harassment committee comprises student as well as faculty representatives. This committee strives to avoid any sexual harassment cases and if any, takes strict action on such cases.
3. Cultural Committee: This committee of students and faculty, caters the needs of various cultural events organized by the institution.
4. Sports Committee: The sports committee's main objective is to conduct/organize regular sports events to train the students for state/national/international level competitions and to promote sports activities among students and faculty members.
5. NCC: The institute has received approval to start the NCC Naval wing under the expansion of NCC coverage in the Border/Coastal area. NCC Naval wing has started with a capacity of 50 cadets from the academic year 2020-2021 under 6 Kar Naval Unit NCC, Udupi. A Ship Modelling Club "SHIP WRIGHT" was launched in this academic year by an ex cadet of 6 Kar Naval Unit NCC, Ms. Nisarga. She is a Mechanical engineering student and is training more than 25 students for ship modelling.
6. NSS: The principle of the NSS programme is to get a sense of involvement in the task of Nation Building through community service. The motto or watchword of the National Service Scheme is 'NOT ME BUT YOU', which reflects the essence of democratic living and upholds the need for selfless service and appreciation of the other person's point of view. NSS wing of NMAMIT Nitte organises programmes like Swachh Bharath

Abhiyan, Constitution Day, Blood donation camp, Personality Development workshop, Plantation of bio-fuel sapling and annual special camp.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

6

File Description	Documents
Report of the event	<a href="#">View File</a>
List of sports and cultural events / competitions organised per year	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

### 5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

WENAMITAA, the alumni association of NMAM Institute of Technology, Nitte is established to create and maintain a permanent bonding between the Institute and its alumni. It is functioning since 2013 with two chapters in its ambit in association the parent chapter at Nitte. "WENAMITAA Bangalore Chapter" functions at Bengaluru and "WENAMITAA Dubai Chapter" functions at Dubai conducting various events. Annual alumni meet along with the members/office bearers of WENAMITAA and its chapters to familiarize the various activities, developments and the achievements of the college/alumni is a flagship event.

The above parent and affiliated chapters contributes through financial and other support services to enhance academic and research related activities which involves financial support, knowledge sharing, placement, entrepreneurship etc. The following are the activities are described in details.

The Institute seeks suggestions and feedback from the alumni to enhance the curriculum, facilities, placement, and training, leading

to quality improvement in these areas.

The Institute regularly invites the alumni to share their knowledge and experience with faculty and students. Other than organizing annual general body meet in the Institute, WENAMITAA sponsors the technical talks at the college and the branch level. Along with bi-annual Global alumni meet, a silver reunion has been started since 2016 in association with the college. Web portal "nmamit-alumni.in", developed by one of the alumni, publishes details of all the activities organized by the association. This portal acts as a bridge for the alumni and the institution. Our alumni are very helpful and supportive in promoting student placements.

Alumni play active role in BOS and BOE, also in committees like IQAC, Advisory committee for the development and quality enhancement of the institute.

WENAMITAA sponsors project funding for students every year to promote hands-on experience and enhance the quality of the learning process. A Hobby project exhibition, Elixir has been sponsored by the alumni since 2015 has completed ten editions with a sponsorship of about 7.4 lakhs. Annual best outgoing student award for every branch and the college, "Mr. Sanjith Shetty award" is sponsored by an alumnus. The WENAMITAA also sponsors the silver medals for the UG and PG programmes of all the branches every year.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

**5.4.2 - Alumni's financial contribution during the year**

E. <2 Lakhs

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## 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

## VISION

Pursuing Excellence, Empowering people, Partnering in Community Development

## MISSION

To develop NMAM Institute of Technology, Nitte, as Centre of Excellence by imparting Quality Education to generate Competent, Skilled, and Humane Manpower to face emerging Scientific, Technological, Managerial and Social Challenges with Credibility, Integrity, Ethics, and Social Concern.

## QUALITY POLICY

We the members of NMAMIT recognize our students, their parents as well as their prospective employers as our esteemed Customers. We commit ourselves to provide education to our students as per the stipulated syllabus using the best practices in order to achieve Customer delight. Our target is to reach the position of the best technical Institutes in India and we aim at sustaining this position.

- Governance of NMAM Institute of Technology is based on the principles of achieving excellence through people empowerment and stakeholder partnership. The Institute firmly believes that active participation of the stakeholders is the key to academic and administrative excellence.
- The Governing Council (GC) is the Apex body, headed by the President of Nitte Education Trust and having members from different stakeholders to guide the institute towards fulfilling the objectives for which the institute has been granted autonomous status.
- Through extensive discussions of the departmental plans, findings of the SWOT analysis, and other recommendations from the stakeholders a Strategic Development Plan for the institute is formulated in line with the vision and mission of the institute.

- The Strategic Plan is realized through deployment at the departmental level with the active participation of the faculty and other non-teaching staff.
- The Governing Council constitutes and empowers the academic council, finance committee and other statutory committees in line with the Vision and Mission of the institute.
- People and Processes, Working Relationship and Outcomes are clearly defined to realize the Vision. The roles and responsibilities of each component of academic and administrative governance is well structured and defined.
- The GC empowers the Principal to administer the institute in line with the rules and regulations. The Principal ensures implementation of the perspective plan through policies and deployment of resources to achieve the goals.
- Academic activities are facilitated by the Academic Council headed by the Principal of NMAMIT Nitte to ensure good Academic Governance with the active participation of Dean Academics, Controller of Examinations, Dean R&D, Director Institute-Industry Collaboration, HoDs, First Year Coordinator, Placement Cell, Board of Studies and Board of Examiners.
- Teachers contribute effectively to the Board of Studies, and also actively participate to coordinate research, teaching, extension and other activities in departments.
- Administrative Governance is ensured through, a good and transparent staffing policy, student admission procedure, budgeting, Purchase Committee and facility maintenance.
- Financial governance is ensured through a robust accounting system monitored by the Finance committee.
- IQAC, headed by the Principal NMAMIT Nitte involving all

stakeholders, plays a pivotal role in ensuring both academic and administrative excellence.

- Academic and Administrative Audit is conducted annually to comply with the institute norms to ensure the robustness of the system.
- Academic and administrative outcomes are carefully evaluated and discussed in appropriate committees of teachers. Necessary actions are taken for continuous improvement in realization of the vision and mission of the Institute.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://nmamit.nitte.edu.in/about-nmamit-nitte.php#vision-mission">https://nmamit.nitte.edu.in/about-nmamit-nitte.php#vision-mission</a>

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

The Strategic Development Plan for 2021-2026 envisages 12 institutional strategic goals with 4 high priority goals. The core to all the strategic goals is empowering the stakeholders through decentralization of Institute activities and ensuring active participation of all stakeholders in the process.

Decentralization at Institute Level:

- The Institute has a participative culture in decision making and in its functioning. The Governing Council itself has representation from management, alumni, faculty, students, industry, academia, affiliating University, Government, AICTE & UGC,
- While the Governing Council is the apex Governing Body, administrative and financial powers have been delegated to the Principal, HoDs and Committees to ensure speedy and effective decisions for academic, administrative and financial management.



- NMAMIT employs decentralization and participatory management in all levels of the organization's activities. Different boards and committees as well as well-defined processes are used to offer leadership, manage various functions, and take appropriate action in accordance with the Institutes' vision and mission.
- Career Progression: Annual appraisal system to ensure overall participation of faculty members in the growth of the institute. Faculty promotion scheme is a well-documented process and transparent system. Promotion to higher cadre requires active engagement of the faculty member in research and academic activities.
- Budgeting & Procurement Process: Departments with HOD as representative take part in budgeting and procurement process. The procurements are processed through the Institute level Purchase Section and Accounts Section. Institute has set standards for procurement process through the Institute level Purchase committee.

#### Decentralization at Department Level:

- Each department has Board of Studies comprising of Faculty members, experts from academia and industry, alumni and student representatives considers feedback on curriculum and assesses the possibilities to upgrade the curriculum on an annual basis.
- The committees such as Board of Examiners, Department Undergraduate / Post graduate Committees (DUGC/DPGC) or Doctoral committees manifest their roles and responsibilities towards academic activities.
- Several other committees for research, curricular, co-curricular and extra-curricular activities ensure engagement of student and faculty in the developmental activities that lead to overall growth of the department.
- Based on the need, department deputed faculty member to attend FDPs and encourages to take up MOOCs and upgrade one's technical know-how.

#### Participative Management:

- Faculty members and students actively participate as team leader or member in the institute level or department level committees.
- Some of the Institute level committees: Research Committee,

Research Advisory Board, Purchase Committee, Hostel committee, Student Clubs, Various Student Support systems.

- Some of the Department level committees: BOS, BOE, DUGC/DPGC, Student associations, various committees for academic works.

File Description	Documents
Upload strategic plan and deployment documents on the website	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	<a href="https://nmamit.nitte.edu.in/img/sdp/sdp2021.pdf">https://nmamit.nitte.edu.in/img/sdp/sdp2021.pdf</a>

## 6.2 - Strategy Development and Deployment

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

### Articulation:

- Strategic Development Plan (SDP) guides the institute to accomplish its formulated vision and mission by understanding the current scenario and the expected near future scenarios. First phase of Institutes SDP involves examining the vision and mission as well as working towards good quality policy and core values. SDP takes into account expectations of the key stakeholders (management, leadership, HODs, faculty, staff, industry, society, students and parents) through a scientific scan of the internal and external environment. A SWOT Analysis is done to identify opportunities, strengths and threats. Institutional goals were established, and strategies are drawn at institutional level to achieve the defined goals. A deployment plan is drawn up to achieve the strategic goals.
- In correspondence to the institutional goals departmental objectives are drawn up, developed through brainstorming sessions constituting all HOD's. Since departments play a critical role for the institution each department has worked out on their vision, mission and short, mid and long-term objectives.
- A committee to monitor the effectiveness of SDP has been clearly spelt out. The final outcomes are further discussed

and approved by Board of Governors (BOG). Twelve institutional strategic goals and strategies are formed with action plans for 2021-2026. The details of the institutional strategic goals are provided in the SDP document. The link to access the SDP is attached herewith:

(<https://nmamit.nitte.edu.in/documents-for-information.php>).

#### Implementation of Key Strategic Goal:

- 'Best Teaching Learning Practices' is one of the identified institutional strategic goals. To ensure the effective implementation of this strategic goal various measures were taken, including bench-marking with premier institutes.
- Outcome-based education, project-based learning and online/e-learning were implemented in a big way. Also, a great amount of emphasis is given on using digital tools for teaching learning such as Moodle as an LMS (<https://guru.nmamit.in>), Impartus for online classes, and other common online platforms like google meet, Zoom, WebEx, Microsoft teams are made use of. NMAM Institute of Technology is one among the first to start on-line teaching during the pandemic and that such a requirement was envisaged in our Strategic Plan.

#### Impact:

- As a result of all these initiatives the Institute has received many accolades. Institute has been ranked 138th in engineering category under India rankings 2021 by the National Institutional Ranking Framework (NIRF). (<https://nmamit.nitte.edu.in/nirf/nirf%202021%20certificate.jpeg>)
- QS I-GAUGE has awarded Diamond rating in the year 2019 in recognition of Institute's achievement in multiple areas.

(<https://www.igauge.in/rating/nmam-institute-of-technology>)

- The Institute was awarded "E-LEAD: eLearning Excellence for Academic Digitization" by QS I-GAUGE for the year 2020. This award is in recognition of the Institute's technological advancements in conducting online learning activities during covid-19 pandemic.
- The Institute has been recognized by ATAL Rankings of Institutions on Innovation Achievements (ARIIA) under the "Excellent band" for the year 2021

(<https://nmamit.nitte.edu.in/ariaa.php>).

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://nmamit.nitte.edu.in/documents-for-information.php">https://nmamit.nitte.edu.in/documents-for-information.php</a> , <a href="https://guru.nmamit.in">https://guru.nmamit.in</a> , <a href="https://nmamit.nitte.edu.in/rankings.php">https://nmamit.nitte.edu.in/rankings.php</a>
Upload any additional information	No File Uploaded

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

The Nitte Education Trust (Management) through the Governing Council and the Principal executes its policies and strategies with a well organized academic and administrative setup ensuring good governance.

The functioning of the different Institutional bodies of NMAM Institute of Technology, Nitte is categorized as follows.

- Governing Council
- Administrative Functions
- Finance Functions
- Academic Functions
- Examination Functions
- Research & Development
- Maintenance

#### Governing Council:

- The Governing Council, with the President of NET as the chairman, reviews the institutional strategic plan which in turn sets the academic aims and objectives of the institution and identifies the financial and recruitment strategies.
- GC empowers the Principal to implement the action plans and deploy the strategic development plans.

#### Administrative Functions:

- NMAMIT has well-defined policies and procedures for recruitment, promotions, appraisals, leave, allowances and resource management. These policies are approved by the Governing Council. All administrative procedures are documented, well defined, transparent and all the stakeholders are provided with sufficient information.
- Principal empowers the Deans, Head of Departments, and Head of Institutional bodies to participate and deliver their administrative roles.
- Some of the Administrative Heads are Dean Academics, Controller of Examination, Dean R&D, Dean Admissions, Dean Student Welfare, HOD of Department, Resident Engineer, Chief Warden, Heads of Sections such as Admin, Academics, Finance & Purchase, PED, Placement Cell, Librarian.
- Each administrative head is empowered to take part in decision making and identify the financial and optimal utilization of resources.
- Admin Section maintains all records of recruitment, promotions, service records and leaves using the software DAKSHA.

#### Finance Functions:

- The Finance Committee headed by Principal, review the financial requirements of the Institution based on the budgetary requirements provided by all department and sections. The approval to financial requirements is given by the Finance Committee of NET (Management). The fee structures are proposed by the NMAMIT Finance committee subjected to approval from Management Finance Committee.
- The Finance committee at NMAMIT has defined process of Fee collection and Purchase. The Purchase section maintains the records of all purchases made using Winman software. The Accounts section maintains the financial transactions made using the software PRAPTHA.

#### Academic Functions:

- Dean Academics empowers the HODs to implement the academic requirements in all the departments. Office of the Dean Academic prepares and maintains all academic related schedules, such as Timetable, student lists, elective details, student registration process, student attendance etc.
- There are well-defined policies and procedures for all academic activities including Prevention of ragging and Prevention of Sexual harassment under the academic

functionaries.

- The HOD and faculty of the department conduct regular classes and activities as per the schedule and document the academic activities. Faculty utilize the MOODLE platform to conduct academic activities.
- The academic section maintains all student records such as admission, registration, and all other academic related matters facilitating the student with their academic related documents.
- The Office of Automation Cell (OAC) works together with academic as well as examination maintains the data regarding academics such as registration, attendance and marks.

#### Examination Functions:

- Controller of Examinations conducts Examination and Evaluation process. The examination section has defined process, rules and regulations to conduct examination, evaluation process, and grading system.
- The Office of Automation Cell (OAC), with the help of inhouse software, maintains the records of course wise marks all students and generates results.
- Academic section also helps in conducting the examination process.
- All the classes where examination takes place are enabled with CCTV and monitored centrally.

#### Research & Development:

- Research & Development section functions through the Dean R&D.
- The R&D at NMAMIT has defined policies such as Research Promotion Policy, Code of Ethics, Policy for publication, grant writing, patent publication.
- The Office of R&D maintains records of all R&D activities carried out in the Institute and evaluates the outcome on a timely basis.

#### Maintenance:

- The Maintenance of the Institute campus is done by the office of Resident Engineer. The Resident Engineer and his office look after all the construction works, repair works, maintenance of power supply and water, and other amenities of the campus.
- The RE office also maintains the garden and sports facilities.
- The Security office provides security requirements of the

Institute at prominent places like entrances, various facilities such as hostel, sports ground, guest house, and garden.

File Description	Documents
Paste link to Organogram on the institution webpage	<a href="https://nmamit.nitte.edu.in/img/Organizational%20structure%202022%20NMAMIT.jpg">https://nmamit.nitte.edu.in/img/Organizational%20structure 2022 NMAMIT.jpg</a>
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

### 6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	No File Uploaded
Screen shots of user interfaces	<a href="#">View File</a>
Details of implementation of e-governance in areas of operation	<a href="#">View File</a>
Any additional information	No File Uploaded

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The Institute has implemented several welfare measures for teaching as well as non-teaching staff. Apart from mandatory requirements of welfare measures, there are facilities such as Medical facilities, Transportation facilities, Accommodation in the campus, Allowances for developmental activities, Fitness centers, Special leaves and encasement, Fee concession for children of employee, Provision for higher studies and sabbatical, Provision for career progression, Financial aid for attending FDP and paper publication etc.

The detailed welfare measures and relevant links are provided in the

attached document.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

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

18

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

16

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	<a href="#">View File</a>
Upload any additional information	No File Uploaded

### 6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

230



File Description	Documents
Summary of the IQAC report	No File Uploaded
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	<a href="#">View File</a>
Upload any additional information	No File Uploaded

## 6.4 - Financial Management and Resource Mobilization

### 6.4.1 - Institution conducts internal and external financial audits regularly

#### Financial Audit Process:

- The financial auditing of the Institute is conducted in accordance with the auditing standards generally accepted in India. These standards compel the auditors to plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatements. An audit includes examining on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit process at the Institute includes assessing the accounting principles used and significant estimates made by the management as well as evaluating the overall financial statement presented to the auditor.
- Institute has a separate Internal Audit Section with an Internal Auditor. Chief Internal Auditor visits the Institute twice a week (Tuesday's and Thursday's). Internal audit is conducted on a regular basis to ensure the hassle-free audit operations and facilitate the smooth running of the process.
- The External auditor Mr. M. R Kamath, Chartered Accountant from Mangalore, who has been appointed by the Nitte Education Trust (NET), visits the Institute along with his audit team twice a year (every six months) and the process of external audit is carried out for a span of 20 to 25 days approximately.
- During the Internal / External audits a preliminary survey is conducted where in various records such as Journal Vouchers (JV's), Cash Payment Vouchers, Bank Payment Vouchers (BPV's), Bank reconciliation statements, Demand and Collection Reports and Pay bills are verified. List of significant discrepancies are prepared and reported to the account section of the Institute for the clarification and further actions.

#### Settlement of Audit Objections:

- Account section (Head of Accounts Department) provides the necessary explanation with required proofs for the rectification there of. In more complex situations details are exchanged in order to ensure full understanding.
- Upon completion of the field work auditor summarizes the audit findings, conclusions and necessary recommendations to the audit report discussion drafts.
- The Institute comments on the draft.
- The auditor then prepares a formal draft with necessary revisions.

#### Support System:

The Institute maintains multiple platforms such as Nitte Accounting Computing Systems (NACS), PRAPTHA (Student Fee Management System), HR Office (Human Resource Information System) to store and access the various records. Above mentioned platforms can be accessed through the following link: <https://nitteonline.co.in>.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://nitteonline.co.in">https://nitteonline.co.in</a>

#### 6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

##### 11.4

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

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

##### Source of Income:

The major source of fund is the annual fees collected from students, research grants, and consultancy and hostel fees. The fees are

collected as per the state government guidelines of fees. The research project grants are funded from funding agencies like DST, DRDO, AICTE, KSCST, KBITS and UGC. The breakup of financial statements are as below for 2020-2021.

- Fees collected: Rs. 81,54,87,051
- Bank interest: Rs. 43,92,061
- Others: Rs. 2,53,300
- Research Grants: Rs. 1,09,81,401
- Total Income: Rs. 83,11,13,813

#### Utilization of Funds:

The institute follows a systematic approach towards the allocation of budget. All the departments are requested to submit an estimate of requirements for their respective department for every year which is discussed under finance committee of the college and approved. The major expenditure is the employee salaries and incentives. The expenditures for 2020-2021 are as below:

- Salaries: Rs. 34,64,81,216
- Finance charges: Rs. 1,99,650
- Operating & administrative cost: Rs. 16,41,86,412
- Research expenditure: Rs. 72,87,241
- Repair and maintenance: Rs. 4,44,35,927
- Depreciation: Rs. 6,73,67,243
- Total Expenditures: Rs. 62,99,57,689

#### Optimal Resource Utilization:

The Principal delegates the administrative power to Deans and Head of departments for the optimal mobilization of resources and their optimal usage. The research facilities created are accessible to all faculty and students in order to promote the intra-disciplinary research. At the department level, HOD keeps stock of facilities created for the department. The stock check is conducted annually through Stores section and Central Library for books.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	<a href="https://nmamit.nitte.edu.in/annual-financial-report.php">https://nmamit.nitte.edu.in/annual-financial-report.php</a>

## 6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

### Role of IQAC in Quality Improvement:

- IQAC is formed in 2016-17 and functioning since then to improve the quality of education and research at NMAMIT, Nitte.
- IQAC Meets regularly and monitors the academic activities and suggest suitable action plans to heads of the department for their implementation. Further, it analyzes the outcome of implemented action plans. These details are recorded in the Minutes of the IQAC proceedings.
- Incremental improvement in Teaching Pedagogy: NMAM Institute of Technology took initiatives in teaching methods for effectively reaching the students during the Covid Pandemic Lockdown period. This helped the students in continuation of their learning during the lockdown. The Institute was awarded QS I-GAUGE E-LEAD Certificate in recognition of this important initiative.
- IQAC members suggested adoption of Project Based Learning and digital tools for teaching and learning, as part of Continuous Improvement in the Teaching Learning process. The compliance requirement of course outcome (CO) attainment has increased from the current level (2019-20) of 3 to 3.15 (2020-21) [5% increase].
- Improvement in Quality enhancement of Faculty: Good number of FDPs were conducted and large number of faculties participated in such FDP's held. There was an Increase in MOOC courses learning among students and faculties due to the support given by the institute to upgrade the skills with the latest and relevant technologies.
- Improvement in Research activities: Improved funding for start-ups from NitiAyog. Increase in external funding from Rs. 70 lakh in 2019 to Rs. 1 Crore 4 lakh in the Calendar year 2020.
- Institute has 250+ Scopus and WoS publications in the current academic year.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://nmamit.nitte.edu.in/iqac.php">https://nmamit.nitte.edu.in/iqac.php</a>

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Semester wise reviews at dept level, HOD forwards the report to IQAC

- IQAC aims to improve the teaching-learning process and recommend the progressive adoption of Outcome-Based Education (OBE) in all the programs offered at various levels.
- A performance-based strategy is used for accountability on student learning.

The IQAC improves the teaching-learning process by implementing established academic procedures, which include:

1. Academic Calendar preparation and adherence
  2. Nominal roll preparation, attendance sheets, and section/group formation
  3. Electives (open, departmental, or general)
  4. Assignment of courses preparation of academic load chart and a timetable
  5. Course file documentation and updating at regular intervals
  6. Structured approach to conduct seminars, projects, and industrial training.
  7. Monitoring student attendance
  8. Monitoring Coverage of the syllabus
- Necessary action plans to improve Course Outcomes are suggested by the Program Assessment Committee, further approved by the BOS and Academic Council. Suggested action plans are then implemented during the course delivery in the successive semester
  - Some of the Suggested action plans for improvement in teaching pedagogy

1. Flipped classes
2. Use of digital media, videos, animations and MOOCs in teaching
3. Project based learning initiatives
4. Self-study materials for open ended learning
5. Self learning assignments
6. Student discussions, seminars, and talks.
7. Solicit a questionnaire from students based on their syllabus.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://nmamit.nitte.edu.in/img/igac/bestpractices2020-21.pdf">https://nmamit.nitte.edu.in/img/igac/bestpractices2020-21.pdf</a>

**6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)**

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	<a href="https://nmamit.nitte.edu.in/igac.php">https://nmamit.nitte.edu.in/igac.php</a>
Upload e-copies of accreditations and certification	<a href="#">View File</a>
Upload details of quality assurance initiatives of the institution	<a href="#">View File</a>
Upload any additional information	No File Uploaded

## **INSTITUTIONAL VALUES AND BEST PRACTICES**

### **7.1 - Institutional Values and Social Responsibilities**

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The institution promotes various gender equity measures and allocates same resources and opportunity for both the gender to reach an equal outcome. In this context, the institution has the procedure to have an equal opportunity in the appointment, promotion, training, research activity and leave facilities, EPF, gratuity and all benefits for faculty and staff of both the genders. In specific, the following activities have been conducted to promote gender equity.

#### Annual gender sensitization action plan

- The college has initiated several measures and organises programmes to promote the culture for female gender equity providing appropriate empowerment to women. This helps in promoting the growth as well as self-confidence. Head of Counselling Centre gives necessary support and programmes through PROSH (Prevention of Sexual Harassment) committee.
- Annual meeting on Gender Sensitization to the members of PROSH and other girl students are conducted.
- The following activities were conducted:

1. Women's Day conducted on March 8th, 2021.

2. Naari Tattva, Essence of Women Conducted on March 13th 2021

3. A Lecture on "Prevention of Sexual Harassment - Legal Aspects" is organised on April 8th 2021.

Our institute takes several measures and provides various facilities for women in terms of:

#### a) Safety and Security

- Security services has been provided in the college as well as in the hostels
- Security officers are located in different locations
- There are specific timings for entry and exit into hostels
- 24X7 ambulance services is available within the campus
- In the hostel inward and outward movement register is maintained for the students and for the girl students by 7.30 PM in the evening they are expected to return.
- Irrespective of girls or boys, those who wish to stay with relatives on particular day entries need to be done in the register with all details of where and with whom they are staying and mobile No. of the relative with whom the student is staying should be provided.

- Resident Asst. wardens stay in respective hostels as well as some staff members staying in the staff quarters are also appointed as Asst. Wardens to take care of student's needs.
- Chief wardens of both girls and boys hostel stay in campus.
- Anti-ragging helpline number is displayed in the college at various exit and entry points and at each department's main corridor.
- For the fitness and health of the girl students, separate timings are provided to use gym facility
- A separate incinerator is installed in girls hostel for the incineration of sanitary napkins

#### b)Counselling

- Head of Counselling Centre, takes care of students and staff counselling as and when it is required.
- Counselling is carried on with the students having problems periodically to ensure his or her wellbeing and is being kept confidential.
- For every class there is one class adviser (teacher) is appointed at the beginning of the academic year. Teacher's name as class adviser is mentioned in the timetable as well as through the Moodle it is announced to the students.
- Soon after each mid-semester exam, HOD calls a meeting of the class teachers with student class representatives to discuss the problems and grievances of the students if any.
- At the end of each semester, before semester end exams are conducted parent teachers meeting is organized to discuss on any issues which they wish to bring it to the notice of college authorities.
- Students with attendance shortages are counselled to maintain regularity.
- Students are also counselled to encourage participation in co-curricular activities such as quiz, seminar presentations etc. in other universities or colleges.
- Students interested in sports and other curricular activities are also advised well to concentrate in academics.
- Orientation programs are being conducted to brief the students on their behavior, approach to handle examinations etc.

#### c)Common Rooms

- Ladies room facility is being provided in each building with well-equipped lighting, table, chairs and bed, providing a calm environment for utilization and benefit.
- Students are advised to maintain cleanliness and silence when



utilising common rooms.

d) Day care centre for young children

- Accommodation of staff quarters is being provided to the needy lady staff having small children to ensure their concern.

e) Any other relevant information

- Round the clock ambulance service is provided in the campus
- Three rows of seats are reserved for ladies in the college buses
- Remedial classes are held for the students who do not perform well in the mid semester exams
- Supplementary semester is held for the students who failed in the semester end examination

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional Information	Nil

**7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment**

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

The degradable and non-degradable waste in the institution campus is segregated systematically with the following facilities

- Solid waste management

Initiatives are undertaken to generate awareness amongst people against illogical disposal of solid and liquid waste. In order to

address the issue of solid and liquid resource management, our institute with the co-operation of Nitte village Panchayath, started an solid and liquid resource management (SLRM ) unit in the campus in the year 2018. The unit collects all the solid and liquid waste from the institute, nearby shops, hostels, and staff quarters and effectively manages to segregate different types of solid and liquid waste generated in village in a sustainable environmentally friendly manner.

Process involved under SLRM Unit:

<https://nmamit.nitte.edu.in/IQAC/AQAR%202020-21/CRITERION%207/7.1.3/chart.png>

The institute has hired 3 dedicated staff for the purpose of collection and segregation of dry and wet waste. A driver has been exclusively hired by the institute for the purpose of transpiration during waste collection and transportation to Panchayath's SLRM unit.

Budgetary provision for expenditure towards collection and sorting of waste: The institution makes provision in the budget to accommodate annual salary expenditure for the collection and sorting of waste.

Liquid waste management: Waste water generated in the campus undergoes re circulation after treatment at Sewage Treatment Plant (STP) and is used for garden and lawn maintenance. The treated water is also utilized for toilet flushing throughout the campus reducing the consumption of fresh water.

- Waste recycling system: All non-biodegradable solid waste generated in and around the campus is sent to SLRM for recycling.
- All biodegradable organic solid waste generated in the hostel and Canteen is segregated and sent to Nitte Gram Panchayat SLRM unit.
- Biomedical waste management: The institute does not generate any biomedical waste.
- E-waste management: All the E-waste generated in the institute is collected and stored in a suitable designated place (ground floor of bank building, below the stair case leading to innovation centre) collected by a local Piggery unit every day in the morning.

- The organic waste generated in the staff quarters is handed over to Panchayat collection vehicle on daily basis, which is composted at Panchayat premise and surplus is sent to composting centre at Karkala.
- All biodegradable inorganic solid waste like paper and cardboard generated in and around the campus is sent to SLRM for recycling.
- Hazardous chemicals and radioactive waste management: The institute does not generate Hazardous chemicals and radioactive waste.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geotagged photographs of the facilities	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus**

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

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

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

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	<a href="#">View File</a>
Various policy documents / decisions circulated for implementation	<a href="#">View File</a>
Any other relevant documents	No File Uploaded

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

<p><b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b></p> <ol style="list-style-type: none"> <li>1. Green audit</li> <li>2. Energy audit</li> <li>3. Environment audit</li> <li>4. Clean and green campus recognitions/awards</li> <li>5. Beyond the campus environmental promotional activities</li> </ol>	A. Any 4 or all of the above
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<a href="#">View File</a>
Certificates of the awards received	<a href="#">View File</a>
Any other relevant information	No File Uploaded

<p><b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of</b></p>	B. Any 3 of the above
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## reading materials, screen reading, etc.

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

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

Institution takes initiatives and provides equal opportunity across divers groups for tolerance and harmony:

Various religious festivals are being celebrated as a mark of respect towards religions among different category of students and staff residing from different places. Some of the functions celebrated in our campus include:

- National Festivals: Republic Day, Independence Day, Holi, Diwali, Christmas etc.
- State Festivals: Karnataka Rajyotsava is being celebrated with bright, cultural respect
- Birth Anniversaries: Teachers Day and Engineers Day
- For the benefit of the students, North-Indian mess for the students coming from Hindi belt is also arranged.
- Socio-economic programme: Program on personal safety and hygiene was given to the nearby government primary school by the students. This was performed by stage play and quiz.
- Tudar (tulu) club has been inaugurated

Inauguration of iMac Lab for Skill and Personality Development Program Centre for SC/ST students:

The iMac lab of Skill & Personality Development Program Centre for SC/ST students at NMAMIT, Nitte was inaugurated on 20 August 2020. Funded by AICTE, New Delhi, this Centre engages in imparting language skills, interpersonal skills, interview facing skills, entrepreneurial skills in addition to software development skills using ios platform. The Centre conducts skill & personality

development programs for the underprivileged SC/ST engineering and diploma students.

The centre has conducted events like

- iOS App Development Training
  - A special Lecture Series on Personality Development Skills
  - GATE coaching through online mode
1. Talk by Dr. Sudhir Raj on Effective leadership and Time Mastery, Mr. Rajendra Bhat on Public Speaking Skills, and Mr. Raghavendra Holla on Emotional Intelligence.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>

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

The college practices and believes in following ethical principles and committed to follow values, rights, duties and responsibilities for a healthy functionalizing of the campus environment.

- NMAM Institute of Technology (NMAMIT) has introduced a compulsory paper on the Constitution of India and professional ethics at UG level in the First year of all engineering disciplines to create awareness and sensitization of the students and employees to constitutional obligation and towards strengthening the democratic values.
- Open elective and global elective courses such as philosophy, introduction to yoga, principles of physical education, overview of Indian culture and arts, professional and cognitive community are offered to inculcate values, rights, duties and responsibility towards society.
- Republic day, Independence day, Mahatma Gandhi Jayanthi and Lal bahadur Shastri Jayanthi is celebrated by organizing activities highlighting the importance of Indian Constitution.
- NMAMIT has been affiliated to the Youth Red Cross Wing of the Indian Red Cross Society Bengaluru in the Year 2017. This wing has been successfully conducting blood donation camp in the

campus. Training are provided to Youth Red Cross Volunteers on topics such as First Aid, Disaster Preparedness, Minimum Competency Skills etc.

Anti-ragging meet is organized in the institution to brief students regarding the dos and don'ts that they need to follow in the campus. The students have been addressed by the police inspectors from Karkala rural police station as a part of "Jagarthi arivu saptaha-2021".

The institute has received approval to start NCC Naval wing with capacity of 50 cadets from the academic year 2020-2021. The inspection of the college was carried out by Cdr. T. Nanda Kishora, CO, 6 Kar Naval Unit NCC, Udupi, in the month of October 2020.

As per NEP 2020 "Universal Human Value (UHV)" course is introduced in view of inculcating human values, rights, duties and responsibilities of citizens.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website. There is a committee to monitor adherence to the Code of Conduct. Institution organizes professional ethics programmes for students, teachers, administrators and other staff. Annual awareness programmes on the Code of Conduct are organized.**

**A. All of the above**

File Description	Documents
Code of Ethics - policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

Institution provides equal opportunity to all and celebrates Karnataka Rajyotsava, Christmas, Holi and Diwali. Intercollegiate student festival called Incridea is conducted for four days every year, which includes cultural programs like arts and dance.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	<a href="#">View File</a>
Geotagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

### Best practices I

To create opportunity for students for experiential learning industry powered laboratories have been initiated in the institute in various departments. These industry powered laboratories train the students so that they are industry ready and have been job opportunities. To name a few Automotive Learning Factory of mechanical engineering department help in creating opportunities for students to experience hands on training on various automotive components, its design, working, analysis and manufacturing. Similarly Active learning Mechatronics NMAMIT-FESTO Centre for Automation Technology of the department imparts practical experience



on automation technology to the students and NMAMIT-Fronius Center For Welding Technology provide skill development training, consultation and research facilities to promote international standard welding practices among the students, faculty members and nearby industries. Department of information science and engineering have NVIDIA Server for AI/DL which enable students and faculty to carry out research and experiments in the domain of Artificial Intelligence/Machine Learning/Deep Learning concepts. Soil testing laboratory of civil department create opportunity for students to learn about the fertility composition of agricultural soil and suggest suitable additions to improve agricultural yield, effective use of fertilizers; problem-solving skills, analytical skills, soil management skills etc, all from a practical view point. Soil testing lab (STL) started in 2020, is a mini consulting project component in the Civil Engineering/Biotechnology program. STL is a social outreach program of the institute to connect with the local farmers and strengthen Society-academia collaboration. In this project, a team of 3-4 students are required to work with farmers or a civic body (Panchayat) on a technical issue. Each team is mentored by a faculty member. Through this, the students would see the worth of what they learn as applicable to down-to-earth practical situations. Similarly, Texas Instruments Center of Excellence of Electronics department create opportunities for students to learn about microcontrollers and interfacing sensors, actuators and other modules to create innovative project prototypes.

## Best practices II

To introduce project based learning (PBL) concept for outcome based education, the institute started implementing problem based learning approach to few courses. This would help in better understanding of subject and learning with experience rather than just mug up approach. To create opportunity for students to learn by doing the experiments. Project Based Learning (PBL) is a teaching method in which students learn by actively engaging in real-world and personally meaningful projects. The projects are done by the teams and the teams are to be mentored by a faculty with regular interactions and team meetings. Teams should present the work to faculty and faculty can suggest the changes and monitor the progress of the work. Evaluation can also be done during this process. Department of biotechnology introduced Project Based Learning in Biocomputing with SAS Lab. The general hypothesis that non-circuit branch students such as biotechnology students dislike programming courses is not true when such courses are structurally taught making best use of ICT and pedagogical techniques. SAS programming being

one of the core requirements in Clinical Data Management systems and most of the companies prefer to hire candidates having sound knowledge of programming in SAS. With this background the lab was introduced. Similarly PBL was introduced for IOT course of Computer Science and Engineering. Few faculties at NMAM Institute of Technology, Nitte has made an attempt to introduce project based learning while teaching engineering courses. A survey is conducted among the students and faculty of computer science and information science branches to know the effectiveness of implementation. From the survey results, it can be concluded that the PBL is beneficial to the students to gain sound knowledge in the subject, to be good in problem solving skills and team work. It can also be observed that, it needs more investment of time from student and faculty side. Mentoring by the faculty on regular basis is expected by the students, giving additional inputs will be an added advantage. Individual evaluations are to be carried out for the work at regular intervals. It is observed that, students expect regular team meeting whenever they complete a major stage. Students prefer to select their problem statements. From the results obtained, it can be observed that, the students are happy with the methods adapted by the faculty. It is also suggested to bring some changes in the process in order to make the process more effective.

File Description	Documents
Best practices in the Institutional website	<a href="https://nmamit.nitte.edu.in/img/igac/bestpractices2020-21.pdf">https://nmamit.nitte.edu.in/img/igac/bestpractices2020-21.pdf</a>
Any other relevant information	Nil

### 7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

NMAM Institute of Technology, Nitte has established a full-fledged Internet Radio Station named RADIO NITTE. The setup consists of a Sound Recording Studio and various necessary equipment for streaming and podcasting programs.

The main objective of this initiative is to provide a platform for the students to showcase their talents and to provide them hands-on experience in recording, editing and broadcasting varieties of programs of public interest. 'Radio Nitte' intends to disseminate information to listeners from across the world by airing programs

related to Education, Indian Culture, Social life, Science & Technology, Agriculture, Healthcare, Rural development, etc. The Radio station will be operational between 5:00 pm and 5:30 pm on weekdays(i.e Monday to Friday).

Initially, the team had suggestions from experts to run the show for an hour every day. But, then, after a meeting, it was decided to start off the airing initially for a duration of 30 minutes on weekdays. It is a bit challenging to get students or other local people to come and perform for us. Any listener for that matter would expect distinctiveness in the content/program. So, attracting students from different cultural or technical backgrounds has been tough for the team. But, so far, the team is managing successfully in streaming varieties of programs every day inspite of this limitation.

'Radio Nitte' is accessible on both Android and Apple mobiles, also on Tabs, Laptops and other computing devices through a customized App named 'RADIO NITTE'.

File Description	Documents
Appropriate link in the institutional website	<a href="https://nmamit.nitte.edu.in/img/iqac/inst-dist20-21.pdf">https://nmamit.nitte.edu.in/img/iqac/inst-dist20-21.pdf</a>
Any other relevant information	<a href="#">View File</a>

#### 7.3.2 - Plan of action for the next academic year

- NMAMIT will be taken under the ambit of Nitte Deemed to be University
- Seeking approval from AICTE to start M.Tech in Cyber Security and M.Tech in Electric vehicles Technology
- Seeking approval from AICTE to start new UG programme -Artificial Intelligence and Data Science
- Introducing Skill development lab for first year UG programs
- Strengthening Industry Institute Collaboration through active MOUs