SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY

NUTAN MAHARASHTRA INSTITUTE OF ENGINEERING AND TECHNOLOGY, SAMARTH VIDYA SANKUL, VISHNUPURI, TALEGAON STATION, TAL. MAVAL, DIST. PUNE
410507
www.nmiet.edu.in

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Nutan Maharashtra Vidya Prasarak Mandal's (NMVPM) Nutan Maharashtra Institute of Engineering & Technology (NMIET), Talegaon is pleased to present this Self Study Report (SSR) to the National Assessment and Accreditation Council (NAAC), Bengaluru. Nutan Maharashtra Vidya Prasarak Mandal is a highly respected education society in Maharashtra and is credited with starting national education school "Samarth Vidyalaya" in the Maval Region of Pune district established in 1906 under four point national agenda. The great freedom fighter Lokmanya Bal Gangadhar Tilak was the founder member and the first chairman of the NMVPM for almost 12 years. The late Hon. Vishnu G. Vijapurkar was the first Secretary of NMVPM. He was imprisoned by the British authorities for his so called anti British activities. Great Freedom Fighter Vishnu Ganesh Pingle was a vibrant Student of Samarth Vidyalaya. He became a leader of the Gadar Party and was hanged by the Britishers for his revolutionary activities in 1915. The Mandal and its schools have such rich heritage.

NMIET was established in the year 2008. The institute is recognized by All India Council for Technical Education (AICTE) New Delhi and Directorate of Technical Education (DTE) Government of Maharashtra. It is affiliated to Savitribai Phule Pune University (SPPU), Pune. The institute runs four undergraduate courses and two postgraduate courses. Undergraduate courses include Computer Engineering, Information Technology, Mechanical Engineering, Electronics & Telecommunication Engineering, and post graduate course include Electronics & Telecommunication Engineering (Communication Network) & Computer Engineering (Computer Network).

Vision

We envision being dynamic-leading institute of 'practice engineering and industrial research' in the learning system that promotes learners towards development of 'self-esteem, self-learning and creativity & innovation' leading to development of successful professionals and members of society.

Mission

The Mission of the Institute is -

"To educate & train the students on skill development and engineering education having Holistic development and global competencies required for employment/self-employment by imbibing a unique value system in the excellent academics and physical environment. Our mandate is to generate, preserve and share knowledge for developing a responsive individuals and professionals."

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Nutan Maharashtra Vidya Prasarak Mandal has historic and philosophical background of last 107 years which has been inculcated in all the students studying in the institute run by them.
- ISO 9001 : 2008 Certified Institute
- The university results are consistently good for all the disciplines.
- The institute has experienced and qualified faculty.
- Innovative teaching learning practices are followed.
- The institute conducts entrepreneurship development activities for encouraging development of entrepreneurial skills in the students.
- The institute has well equipped infrastructure facilities like State-of-the-art laboratories, classrooms, tutorial rooms and hostels.
- A State-of-the-art central library is available with adequate titles and number of volumes.
- The institute is beautifully located and is well connected through roads and the railways.
- The institute promotes enthusiastic students' participation for social causes, through the NSS Programme.
- Institute promotes co-curricular and extra-curricular activities.

Institutional Weakness

- The institute lacks sufficient patents.
- Consultancy activities need to be enhanced.
- The institute needs to strengthen the Alumni Association.
- The institute needs a University Sponsored Research Center.

Institutional Opportunity

- There is scope for inter-disciplinary research.
- The institute can venture into joint research and Ph.D programs with international universities; which may provide a platform for international exposure to both students and faculty.
- Industry interface
- NSQF certified programs
- Incubation centers

Institutional Challenge

- Increasing the number of placements for slow learners.
- Student's skill need to be enhanced through additional measures as per the continuous changing requirements of the industry.
- Due to the growing number of engineering institutes we need to attract academically good students.
- Resource mobilization

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute is affiliated to the Savitribai Phule Pune University, Pune. The institute is a self-financing institution and follows the curriculum provided by the University. Faculty actively participates in the curriculum design by conducting syllabus revision workshops in which members of Board of Studies and senior faculty from various engineering institutes are invited to discuss and share their ideas. The faculty also attends similar workshops conducted by the University. Academic flexibility and bridging the gap between curriculum and industry is achieved by conducting certificate courses, seminars and tie-ups through MOU's with leading industries. The institute encourages self-employability by conducting Entrepreneurship Development Programmes. The institute caters to the needs of slow learners through extra inputs in remedial classes. Social awareness and community service is inculcated in the students through various NSS activities.

The institute has transformed the university curriculum in to OUTCOME BASED EDUCATION. The curriculum implementation and monitoring processes are developed and has documented the processes. The curriculum has incorporated the CBCS & offered electives in all four undergraduate & two postgraduate programmers offered by the institute. The institute regularly conducts the feedback on curriculum & teaching learning processes. The outcomes of feed back are taken for corrective measures.

Teaching-learning and Evaluation

Excellence in teaching and learning is achieved by recruiting good competent teaching faculty. Total 80% of the student admissions are carried out through government central admission program. The remaining 20% admissions are carried out by the management on merit basis. In order to have smooth conduction of teaching, meticulous planning is done prior to the commencement of semester. Institute practices blend of traditional teaching and student centered learning practices such as Project Based Learning (PBL) and Active Learning. Weekly syllabus completion status is monitored. Tests and tutorials are conducted on a regular basis to ensure that the students grasp the concepts being delivered in the classrooms and laboratory sessions. A feedback mechanism for the faculty by the students facilitates in continuous improvement in teaching learning process.

The institute is the part of the centralized admission process of the state government. The admissions are strictly followed as per the rules & regulation of Government of Maharashtra. The institute has developed the academic plan, course plan & lesson plans. The student centric methods like experiential learning, participative management & problem solving methods are employed at program level, course level & lesson level. The case studies narrating the student centric methods & innovations are part of the SSR. As the assessment is essential & vital in learning is done by designing reforms in continuous assessment, project assessment and also by maintaining the transparency in the assessment system. The assessment is done in all 3 domains of learning viz. Cognitive, psychomotor and affective domain.

Research, Innovations and Extension

To cultivate the research culture into students and faculties, institute has established a R&D cell which comprises of Principal, Professor of other well-known colleges and senior staff members. Institute established a **Satellite laboratory** for initiating the communication networks funded by AICTE. The Research Committee comprises of Dean (R&D), HODs and Research Coordinators for promoting various research activities. The institute has unique R&D incentive scheme for strengthening interdisciplinary research. The faculty are duly recognized and encouraged to participate in various workshops and conferences, to remain abreast with latest knowledge and technology updates. Institute has made financial provisions in the budget to cater needs of research. Every faculty is encouraged to publish at least one paper in UGC recognized journal. To motivate

students for Patents filing and copyright, institute conducts workshops and seminars by the experts. Students are also encouraged to take the industrial project.

Institute has established Entrepreneurship Development Cell, through which students interact with successful entrepreneurs, ask their queries and listen to their success stories in their own word. For this institute started with a Series named as "**Sidhi Baat Udyojag Ke Sath**". A dedicated Student Development Officer is appointed to look after the EDC activities.

Institute is collaborating with the nearby industries by signing MoUs for Industrial Visits, on job training, expert sessions and research projects. Twice students reached to the zonal level in the research project competition organized by SPPU.

The students are made aware of their social and moral obligations towards society through techno-social activities under NSS.

Infrastructure and Learning Resources

Well-equipped infrastructure goes hand in hand for imparting quality education. The Institute has adequate number of class rooms, laboratories, workshops and tutorial rooms. Each class room is equipped with state-of-the-art facilities. The laboratories and workshop have modern equipment, machinery, computer hardware and software. The institute has adequate seminar halls which are used for multiple activities such as seminars, workshops and conferences. The central library has excellent collection of book titles, reference books, journals, databases, magazines and a book bank facility. The central library is equipped with Integrated Learning Management Systems (ILMS), Web OPAC (Online Public Access Catalogue) and digital library facility. The central library is having a reading hall with a seating capacity of over 100 students. The institute is located in lush green and pollution free environment. Adequate hostel facility for girls and boys is provided on the campus. Various sports facilities are provided to the students like sport grounds for football, cricket, basketball, athletic track etc. along with well-equipped gymnasium.

Student Support and Progression

The institute has annual intake of 300 students and total strength of 927 students coming from diverse geographical locations of India. In order to cater to the needs of students, a Guardian – Faculty Mentor (GFM) scheme is followed. Each GFM is assigned about 20 students who monitor the academic and personal progress of these students. The GFM is also in constant touch with their parents/local guardians.

The Training & Placement (T&P) cell of the institute provides career guidance and organizes campus recruitment drives for the students. The T&P cell prepares the students for placement and overall development activities through various initiatives such as online assessment tests, soft skills development programmes, Add-on Courses, Group Discussions, Personal Counseling and Foreign Language courses. The T & P Cell arranges special coaching for Soft Skills and other competitive examinations. The T & P cell has formed Reader's Club, Speaker's Forum, Art Circle and Study Circle.

Development of Entrepreneurial skills is encouraged in the students through Entrepreneurship Development Cell (EDC). The institute has signed MoUs with around 50 industries and institutes in last six months.

The institute is having hostel facility for both boys and girls students. The laboratories and library remain open for extended hours as per the need of students.

Governance, Leadership and Management

The institute is governed by the Management of NMVPM, which is led by the academician. Faculty members being on the management committee, are actively involved in the decision making process at various levels. The management is in constant touch with the Principal in order to discuss development of the Institute. The institute has developed its mission & vision of the institute by following the scientific method. The ABCDE strategic planning model is used to arrive at mission and vision. The institute has developed the strategic plan for 2017-2027. The institute employs ISO, AAA for the institute. As a result of its leadership, the quality culture is developed by institute. The project method is implemented from the first year itself. The institute also conduct "Visionary Learning Community of India" (VLCi) program in association with Confederation of Indian Industry (CII) and Japanese International Coordination Agency (JICA) and Anand Group of Industries. These activities have resulted in the % of placement at institute level. The management conducts meetings of the Standing Committee where the Principal represents the institute. The Overall Coordination & Development Committee (OCDC) that comprises of the Principal, Heads of Departments and senior faculty, plan for the progress of the Institute. The institute organizes annual Technical Festival 'Tech-Fest', the annual social gathering, workshops, seminars and conferences for the overall development of the students and also to inculcate leadership qualities among them.

Institutional Values and Best Practices

The institute is committed to adopt environment-friendly policies with regard to tree plantation, waste management, and use of solar water heating system, use of renewable energy resources, PUC and water harvesting.

The foremost best practice is the Visionary Learning Community of India (VLCi) in order to enhance the employability of students. The principle objective of VLCi is on Make in India for Indian manufacturing industries, so this ambitious drive to succeed, the base of Indian manufacturing viz. MSMEs has to be strengthened. VLCi is looking forward to make this happen in the involvement of educational institutes with manufacturing transformation journey. The NMIET College would be offering the subject as an open elective for its engineering students.

The second best practice is Under Graduate Conference (UGCON). The main objective of this institute level conference is to provide an opportunity to explore topics by discussion and to identify and sort out any problem. Presenting paper along with the Seminar prove beneficial for throughout development of student.

The institute is in process of establishing **"Atal Incubation Center"** in association with NITI Aayog, Government of India.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	Nutan Maharashtra Institute of Engineering and Technology
Address	Nutan Maharashtra Institute of Engineering and Technology, Samarth Vidya Sankul, Vishnupuri, Talegaon Station, Tal. Maval, Dist. Pune
City	Pune
State	Maharashtra
Pin	410507
Website	www.nmiet.edu.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	Rajendra D. Kanphade	02114-231888	9657508936	02114-231777	principal@nmiet.edu.in
Associate Professor	Nitin A. Dhawas	02114-231410	9420080661	02114-231666	nitin.dhavas@nmiet.edu.in

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

Date of establishment of the college	30-06-2008

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

State	University name	Document
Maharashtra	Savitribai Phule Pune University	View Document

Details of UGC recognition

Under Section	Date
2f of UGC	
12B of UGC	

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

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	30-03-2017	12	

Details of autonomy

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

Recognitions

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

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	Nutan Maharashtra Institute of Engineering and Technology, Samarth Vidya Sankul, Vishnupuri, Talegaon Station, Tal. Maval, Dist. Pune	Rural	10	11713.55

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BE,Computer Engineering	48	HSC	English	60	58
UG	BE,Electronics And Telecommunication	48	HSC	English	60	25
UG	BE,Information Technology	48	HSC	English	60	51
UG	BE,Mechanical Engineering	48	HSC	English	120	84
PG	ME,Computer Engineering	24	BE	English	24	0
PG	ME,Electronics And Tele communication	24	BE	English	24	0

Position Details of Faculty & Staff in the College

Teaching Faculty											
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				7				14				59
Recruited	1	0	0	1	6	1	0	7	25	32	0	57
Yet to Recruit				6				7				2
Sanctioned by the Management/Society or Other Authorized Bodies				2				0				13
Recruited	2	0	0	2	0	0	0	0	11	2	0	13
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				29
Recruited	23	6	0	29
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				28
Recruited	19	9	0	28
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualificatio n	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	1	0	0	0	0	0	2
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	5	1	0	25	32	0	63

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	0	0	0	0	0	0	0	0	2
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	11	2	0	13

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	622	3	0	0	625
	Female	299	0	0	0	299
	Others	0	0	0	0	0
PG	Male	0	0	0	0	0
	Female	3	0	0	0	3
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		**Year 1**	**Year 2**	**Year 3**	**Year 4**
SC	Male	4	2	4	7
	Female	6	2	0	2
	Others	0	0	0	0
ST	Male	0	0	15	0
	Female	1	0	1	0
	Others	0	0	0	0
OBC	Male	11	19	20	12
	Female	4	2	3	4
	Others	0	0	0	0
General	Male	26	54	42	42
	Female	34	18	19	16
	Others	0	0	0	0
Others	Male	8	17	16	13
	Female	5	9	7	8
	Others	0	0	0	0
Total		99	123	127	104

3. Extended Profile

3.1 Programme

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

Response : 6

Number of self-financed Programmes offered by college

Response : 6

Number of new programmes introduced in the college during the last five years

Response : 4

3.2 Student

Number of students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
763	962	881	869	850

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

2016-17	2015-16	2014-15	2013-14	2012-13
150	150	150	120	120

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

2016-17	2015-16	2014-15	2013-14	2012-13
217	254	186	214	199

Total number of outgoing / final year students

Response : 1070

3.3 Academic

Number of teachers year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
80	68	56	52	50

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

2016-17	2015-16	2014-15	2013-14	2012-13
54	57	50	51	50

Number of sanctioned posts year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
80	68	56	52	50

Total experience of full-time teachers

Response : 770

Number of teachers recognized as guides during the last five years

Response : 1

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

Response : 262

3.4 Institution

Total number of classrooms and seminar halls

Response : 25

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

2016-17	2015-16	2014-15	2013-14	2012-13
185	246.25	196.75	183.75	144.25

 Number of computers

Response : 478

Unit cost of education including the salary component(INR in Lakhs)

Response : 0.84

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 0.32

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

The institute follows the academic calendar provided by Savitribai Phule Pune University (SPPU) and imparts quality education depending upon the resource potentiality of the institution.

The institution has developed a structured and effective implementation of the curriculum. Following are the various means through which it executes the curriculum.

Principal Meeting:

Principal meetings are held once in a week. Head of Departments discuss their action plans to arrive on optimal and effective way.

Academic Calendar:

Academic Calendar is prepared as per the SPPU, Pune academic schedule and the requirements at the department level as per the action plans are formed.

Lesson Plan:

The lesson plan includes course outcomes, course objectives, content topics, reference books. The expected course outcomes is achieved through the efforts taken by the faculty with deep study of the subject at the beginning of each semester. The lesson plan provides an insight on how the course is delivered in a semester.

Course File Contents:

1. PEOs

2. PLOs

3. COs

4. Mapping of COs, POs & CO/PO Attainment

5. Course Syllabus.

6. Individual Time Table.

7. Teaching Plan.

8. University Question Papers and model solution.

9. Question Bank Theory.

10. Oral/Objective Question Bank

11. Students Attendance Record.

12. Unit Test I/II/Prelim: Question Paper, Attendance Record, Result, Sample Answer Sheets.

13. Assignments/Tutorials

14. Continuous Assessment Record.

15. Notes (Hard/Soft Copies)

16. NPTEL Lectures

Meeting the Vision and Mission of the Concerned Department:

Each department sets its own Vision and Mission which match with the Institutional Vision and Mission. PEOs, POs/COs are developed for each program.

The deployment of the action plans:

- Effective implementation of curriculum is periodically reviewed through departmental meetings and through the iCloud EMS system in presence of the Principal.
- Based on the curriculum various assessment examinations like unit tests, mock online and written exams are regularly conducted as per the academic calendar.
- Proper evaluation review of the results is carried out by the respective faculty and the HoDs.
- Progress of the students is regularly informed to their parents through direct communication and also through website. The parents can contribute in the improvement of the student by means of this update. The parents are invited to meet the HOD, faculty and class In-charge to have an on the spot assessment of the students.
- Smart classrooms are provided to implement the curriculum effectively.
- The communication skills of the students are built through aptitude session, critical thinking, group discussions and interviews to maximize placement.

The iCloud EMS system parameters are:

- Faculty name
- Course details
- Course material
- Monthly Continuous Assessment/Performance Report
- Question papers of the unit tests along with synoptic answers
- Question banks

- Statements of marks for internal assessment tests 1 and 2 secured by the students
- University question papers
- Faculty prepares syllabus coverage report, report of lectures conducted and record of remedial classes conducted. Based on these records continuous assessment report of students performance is prepared and displayed on notice board.

The process chart for effective Curriculum delivery is attached herewith:

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response: 7

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

2016-17	2015-16	2014-15	2013-14	2012-13
5	1	1	0	0

File Description	Document
Details of the certificate/Diploma programs	[View Document](#)

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

Response: 60.57

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

2016-17	2015-16	2014-15	2013-14	2012-13
46	38	32	25	19

File Description	Document
Any additional information	[View Document](#)
Details of participation of teachers in various bodies	[View Document](#)

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Response: 66.67

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

Response: 4

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Details of the new courses introduced	[View Document](#)

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

Response: 100

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

Response: 6

File Description	Document
Name of the programs in which CBCS is implemented	[View Document](#)
Minutes of relevant Academic Council/BOS meetings.	[View Document](#)
Any additional information	[View Document](#)

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

Response: 35.56

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

2016-17	2015-16	2014-15	2013-14	2012-13
548	288	311	175	175

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

1.3 Curriculum Enrichment

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

Response:

As part of curriculum "Environment Study" for first and second year, faculty makes students aware about the basic components of environment and their application in various fields. Institute organizes various activities like tree plantation, public awareness during festival season with the help of students. E.g. Importance of Blood donation and blood donation camps, importance of hygiene and individual responsibilities regarding the same, Immersion of Ganesh idol etc.

- As per the Government of Maharashtra and DTE norms institute follows reservation policy for Girls students.
- Anti Ragging committee has been displaced on notice board and at various places like canteen, hostel etc.
- Complaint from student regarding Canteen, Hostel facility, institute properly discuss and resolve with mutually agreed solutions.
- To match with today's need for fast and accurate information, institute provide access to fast internet to students. Student's inputs and complaint regarding same are properly studied and addressed.
- Women Grievances cell.
- Earn and Learn Scheme.

Please find the uploaded document for the list of courses in the curriculum and courses initiated by the institute related to cross- cutting issues like Gender, Environment and Sustainability, Human Values and Professional Ethics.

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

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

Response: 46

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

Response: 46

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

1.3.3 Percentage of students undertaking field projects / internships

Response: 45.09

1.3.3.1 Number of students undertaking field projects or internships

Response: 418

File Description	Document
Institutional data in prescribed format	View Document
List of students enrolled	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

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

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	<u>View Document</u>
URL for feedback report	<u>View Document</u>

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

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

Response: 0.06

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

2016-17	2015-16	2014-15	2013-14	2012-13
0	3	0	0	0

File Description	Document
List of students (other states and countries)	[View Document](#)
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 44.6

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

2016-17	2015-16	2014-15	2013-14	2012-13
99	123	127	104	152

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

2016-17	2015-16	2014-15	2013-14	2012-13
300	300	300	240	240

File Description	Document
Any additional information	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 37.6

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

2016-17	2015-16	2014-15	2013-14	2012-13
39	47	66	46	58

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

Assessment of learning levels of the students

Every year the college organizes an Induction Program for the First Year students.

- It opens with the Principal's Address and includes –
- Introductory sessions conducted by dean academics & faculty members (who are in-charges of various extra-curricular and professional activities taking place within college campus),
- Talks by the Training and Placement officer.

In the orientation, following points are discussed:

1. First year Course/Examination structure
2. Academic Calendar
3. Passing criteria, grading pattern, re-examination
4. Distribution of information brochure.

Before commencement of classes, the students are classified as Slow/Advanced Learners based on CET Marks & HSC Marks. Identification Process is based on performance of students in the classroom and laboratory.

Slow learners

These students are mentored by interactive sessions other than the regular classroom / laboratory contact hours.

Strategies for slow learners:

- Tutorials / remedial classes are conducted for these students after class hours to clarify doubts, re-explain the critical topics for an improved performance.
- Poor performance due to frequent absenteeism is dealt by sending SMS and letters to the parents of such students.
- Counseling and mentoring sessions conducted in a friendly way help the students to overcome their psychological problems and achieve their goals successfully.

These measures make the learners feel educationally, financially and socially comfortable once they enter the College. This way, the disadvantaged sections of the society are given due attention and are streamlined into the academic mainstream.

Advanced Learners

The advanced learners are identified by the concerned faculty based on

- Student profile maintained
- Their performance in internal assessment tests, end-semester examination.
- Active participation, involvement, performance in the classroom/academic clubs/seminars, etc.

Strategies for Advanced Learners

- Advanced reading lists are provided to widen their horizon.
- They are given inputs on reference skills, research methodology and research design. They are intellectually stimulated with various advanced projects, challenging assignment and tasks for their advancement.
- They are encouraged to present/write research articles and assist in preparation of college magazine.
- They are usually made the class representatives for proactive leadership through which classroom dynamics are positively influenced.
- They are given the lead to plan and organize departmental seminars/conferences giving them an opportunity to interface with the academia/industry experts.

Data collection

- The office and respective GFM maintains information of the students who are economically weak, slow learners, advanced learners or belonging to socially disadvantaged sections.
- Each programme conducts regular tests & GFM meetings through which needs of weak students are identified.
- Also, the continuous evaluation helps to infrmation about students who are weak & running the risk of being dropout.
- Mentoring system is implemented in which each teacher is assigned a batch of (max 25) students with whom thy regularly interact. From this interaction, institute gets information about students who are lagging or progressing in particular subjects.

Data Analysis and documentation

- GFM record is scrupulously analyzed , documented &maintained for further actions.
- Results of offline & online tests are meticulously carried out.
- The corrective actions are initiated and monitored by head of the departments and used for further strategic planning.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.2.2 Student - Full time teacher ratio

Response: 11.59

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

Response: 00

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any other document submitted by the Institution to a Government agency giving this information	[View Document](#)
List of students(differently abled)	[View Document](#)
Any additional information	[View Document](#)

2.3 Teaching- Learning Process

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

Response:

Following measures are taken to make learning student-centric:

Experimental learning

- The college focuses on imparting that kind of knowledge which enhances critical thinking and gives scope for creative imagination among students so that when they grow up they become responsible citizen of the country.
- The institute is having state of the art laboratories for students to get their theoretical concepts clear through practical / experimental knowledge. Scientific thinking among students is nurtured by creating an atmosphere where they are made to see and analyze everything in an objective and scientific way.
- The institute is having latest & upgraded software like MultiSim, MATLAB, Oracle, Microsoft Campus Agreement, Pro-Simulator Software of 210 MW Steam Power Plant, FEMAP with NX Nastran Academic bundle NX(CAD/CAM), Ansys, Solid Edge ST 5 Academic Bundle, Automation Studio, etc. Tri Party agreement with Siemens to give experimental learning with corporate touch to students, MoU with Wisdom Sprouts to give experimental knowledge to students on Big Data/Hadoop & MongoDB.
- The student-centric learning atmosphere of the college makes them not to accept everything blindly but to question the age-old practices on scientific terms.

Participative learning

- In participative learning, students are encouraged to participate in Project Competitions, design contests and various technical events.
- Arranging field/industrial visits.
- Conducting sessions like group discussion, seminar, and quiz, poster presentation to make the learning more interactive and collaborative.
- Inter-collegiate events like UGCON.
- Complex Laboratory Experiments.
- Paper writing.
- NSS camps are arraanged to motivate students and to have debates, enact theme-oriented skills which foster creative thinking. In addition, learner–centered teaching methods such as group work, role play, project work, field visit, case study, debates etc. supplement classroom teaching which enhances critical thinking among students.

Problem solving methodologies

1. Define the problem.
2. Create a mathematical model.
3. Develop a computational method for solving the problem.
4. Implement the computational method.
5. Test and assess the solution.

For example:

In order to promote the Problem Solving Methodology among students, E&TC department has initiated training on "LED Series Making" for all the department students including students from FE.

A team of office- bearers was formed. The material for 110 LED series was purchased from Import Substitute Company. The purchase was done through the fund of student association 'EESA'. The students of Electronics & Telecommunication Department made the 110 number of series successfully.

The outcome of this event is

- The students learned the process of the LED Lighting Array assembly
- They understood the concept of Industry through office bearer team formation process.
- The students got motivated for Entrepreneurship.

Also the students from SE/TE/BE are given mini & major projects based on Problem Solving Methodologies.

Self – Learning

- Add-on courses on advanced technologies and applications
- Availability of learning resources through NPTEL Video Lectures and E-Resources.
- Wi-Fi facility is available in the campus to allow students to access technical resources

Overall Development

Institute conducts cultural activities, sports activities, industrial visits, NSS activities, Student Association Activities, technical activities, competitions & project exhibitions for the overall development of students.

Process chart for various Teaching Learning Processes is attached:

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

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

Response: 81.25

2.3.2.1 Number of teachers using ICT

Response: 65

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

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

Response: 14.26

2.3.3.1 Number of mentors

Response: 65

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	View Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Innovation and creativity in teaching-learning:

- The institute has encouraged the teachers to use the modern teaching aids, technological equipment along with traditional lecture method. Trends have been set to use the multimedia devices, like Projector and Computers.
- Quiz, surprise tests, group discussion, class-room seminars, Industrial Visits, audio-visual aids are used to make teaching effective. These innovative techniques have helped us to make the learning experience of students effective, enjoyable, attentive, interactive and communicative.
- Institute has its own CoE with Siemens, Nutan Gabriel TVS Training Center, Satellite Communications (Meltek Infosystem), Data Analytics Learning Hub (Wisdom Sprouts), VLCi (CII, JICA Group), PM Kaushalya Vikas Yojana, etc

The following activities are introduced in the institute to enhance teaching learning process:

- Students are encouraged to get involved in industry sponsored projects as a part of their curriculum.
- Institute organizes events like Design/Project competitions and exhibitions, software and model development, poster competition, etc to develop creativity and critical thinking among the students.
- Students who are interested in R&D work are continuously motivated and encouraged to present their Project work in different National/International Seminar/Conference/Workshop.

Innovative teaching approaches/methods adopted by the faculty

- The teachers try to make lectures more student-centric by cooperative learning by means of group discussion, role play and technical debate.
- Institute has developed smart class rooms with web-based teaching. The teachers utilize these facilities to illustrate the concept clearly through audio/video mode.
- The students are assigned different tasks such as Open Book Tests, Group Assignments, Problem Solving and Mini Project. This activity helps to improve self-learning, thinking potential and teamwork.
- In presentation activity students are asked to prepare presentation on any of the topic related to course. This presentation has to be delivered in front of the students.

Initiatives by Mechanical Department:

1. Department runs Siemens certifications program to students as well as industrial professions to learn advance software.
2. Department is having ultra-modern simulation facility in Power plant engineering which is helpful to final year students. As a professional ethics training on pro-simulator software of 210 MW steam power plant is also given to other colleges by arranging workshops.

Initiatives by E&TC Department:

1. Students are guided and motivated to make small projects on general purpose board or breadboard in order to be familiar with electronics components and at entry level in the department.
2. Other than the prescribed experimental Set up in curriculum, E&TC students are given actual demonstration of visualizing satellite signal and measuring beam widths of these signals.

Initiatives by IT & Computer Engineering Departments:

1. The departments have signed MoUs with Wisdom Sprouts for CoE & Training and development on Big Data & Hadoop, SV Softech, ATS InfoTech, Engikart Labs, etc.
2. The departments have conducted five days workshop on Web Development.
3. The departments have conducted FDP on NS–2 sponsored by BCUD, Pune

Impact of innovative practices:

- Learning process becomes increasingly personalized.
- It enables students to develop and realize their personal potential.
- The students are benefitted in placements and corporate culture.

Please find attached document for innovation/creativity in Teaching-Learning done by all departments in NMIET:

File Description	Document
Any additional information	[View Document](#)

2.4 Teacher Profile and Quality

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

Response: 87.74

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	\text{View Document}
List of the faculty members authenticated by the Head of HEI	View Document

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

Response: 5.72

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

2016-17	2015-16	2014-15	2013-14	2012-13
2	4	4	3	2

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

2.4.3 Teaching experience of full time teachers in number of years

Response: 9.63

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	View Document

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

Response: 0.39

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

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	1	0

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

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

Response: 1.42

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

2016-17	2015-16	2014-15	2013-14	2012-13
1	0	0	2	1

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

2.5 Evaluation Process and Reforms

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

Response:

Assessment and Evaluation process

This is a two tier system.

1. University defined and

2. Institute defined

SPPU Pune conducts various examinations to evaluate the students. There are the evaluation examinations of the affiliating university such as Online MCQ Tests (Phase 1 & 2) for First and Second year, In-

semester Exam for third and final year, Pr/Or exams and End-Semester exam for all. The main written examination is conducted at the end of the semester.

The institute has to ensure that the students are ready for these examinations. Thus, all types (objective and subjective) of tests are planned before commencement of each semester. Also, to promote students learning and involvement in extra-curricular activities term work norms are prepared well in advance. The institute has defined set of internal assessment.

- The CEO and Examination Committee schedules and executes the evaluation process with strict monitoring on regular basis.
- The Principal also takes stock of the progress in weekly HOD meetings.
- CCTV cameras are deployed at all class rooms, exam cell and laboratories to monitor the online examinations.
- Each department has Examination Coordinator for smooth conduction of Internal Tests. The results of each test are strictly declared within a week of the conclusion of the test. The students can see their respective answer sheets and discuss their queries with concerned staff.

- The term work evaluation is done by respective course teachers in the mid and at the end of semester. The students re notified about their performance evaluation of students is displayed on notice board through Continuous Assessment Report (CAR). Student can discuss any queries about CAR with the concerned teachers

Year	Exam by SPPU		Marks	Exam by SPPU	Marks	
FE	Phase – I [25 M]	Phase – II [25 M]	50	End– semester	50	
SE	Phase – I [25 M]	Phase – II [25 M]	50	End– semester	50	
TE	In – semester		30	End– semester	70	
BE	In – semester		30	End– semester	70	
ME	In – semester		50	End– semester	50	

Fig. 2.5.1: Examination Pattern of SPPU

Continuous Assessment

The institute believes firmly in continuous evaluation of the students for their sustained performance. Hence a structured evaluation process has been designed and implemented. The tests are prepared and conducted as per the University examination pattern. To prepare students for practical and oral examinations, institute conducts mock Oral/Practical exams. The institute conducts two unit tests, Prelim Exam, Mock Online MCQ Tests and Mock Pr/Or Exams appropriately as per the requirement of the concerned syllabi of different classes.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response:

Transparency initiatives at institute level:

- Basic eligibility for evaluation process is made known to students through university website, notice boards and class counseling.
- Institute notifies evaluation process and related documentation on the notice board as well as on institute website. This includes distribution of marks and schedule of internal evaluation and university evaluation.
- Institute also notifies the criteria for allocation of term work marks through notices and class counseling.

Robustness in terms of Frequency

- Continuous assessment report for all the courses is displayed in respective laboratories every month.
- Staff meetings are conducted periodically to review the evaluation process.
- Display all unit tests marks within a week after end of unit tests.
- Display term work marks at the end of each semester for students information.

Robustness in terms of Variety

- Solving grievances of students if any.
- Two internal examiners are appointed for each subjects to evaluate final internal marks.
- At the end of each semester, The Principal verifies the internal marks for all the students.

SPPU Procedure for Submission of Application for Supply of Photo Copy (ies) of Assessed Answer Book(s):

1. The Application form filled in and signed by the examinee only.
2. The application shall be submitted by the examinee, along with the requisite fees, within ten days.
3. The candidate shall submit their application forms along with the requisite fees to the Principal/Director of the college/institution.
4. The Principal forwards this application to SPPU CEO for further process of evaluation.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response:

At University Level

- The student section takes care of on time submission of examination forms.
- If any grievances are reported after submission of examination form, the student section takes care to solve the grievances.
- Institute appoints internal squad during examination to avoid any type pf misconduct.
- CEO along with student section takes care of University evaluation grievances. The grievances if any are forwarded to the University for Further Process.
- The process is as follows:
- The students can apply for photocopy of answer books then verification and then revaluation
- The University examiners re-verify, re-assess the answer books and revised marks if any, are notified to the concerned students.
- Institute level grievances are handled by the Teachers, HoDs and Principal.

Revaluation of answer book(s) of theory paper(s)

Procedure for Submission of Application for Revaluation of Answer Book(s) of Theory Paper(s):

1. A candidate shall be eligible to apply after receipt of photo copy (ies) of those answer book(s).
2. A candidate shall submit an application along with the requisite fees, within ten days from the date of receipt of photo copy (ies).
3. The application forms hall has to be filled in and signed by the candidate only.
4. A candidate shall attach photo copies the following documents.
5. Students of affiliated colleges/recognized institutions shall submit their application forms along with the requisite fees to the Principal/Director of the college/institution concerned.
6. Students of University Departments shall apply directly to the Controller of Examinations; submit their application forms through the Head of the Department concerned.
7. External students shall apply directly to the Controller of Examinations, with the requisite fees.
8. Head of the University Department or the Principal/Director of the college/institution concerned shall forward all applications within five days from the last date of receipt of applications for revaluation, along with the amount of fees.

Terms Relating to Revaluation of Answer Book(s) of Theory Paper(s):

1. The revaluation of the answer book(s), however, shall not be permitted in respect of scripts of Practical Examination / Term Work / Internal Assessment / Sessional Marks / Dissertation / Thesis / Clinical / MCQ (Multiple Choice Question in practical examination) and Viva-Voce, etc.
2. The fee for revaluation may be refunded, if the application is not entertained and not processed for revaluation and if the candidate concerned submits his request for refund.
3. A candidate shall note that the result of the revaluation of his/her answer-book(s) of the theory paper(s) shall be binding.
4. The benefit of the revaluation shall be given to a candidate if the original marks and the marks obtained after revaluation exceed by 10% or more of the maximum marks.

At institute Level

- The concerned faculty looks into redressal of grievances with reference to evaluation at the institute level.

The faculty discusses the marking scheme and model answers with the students and resolves their queries.

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

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

Response:

Institutions have gained its unique position among peer institutions through scrupulously planning and executing the *Teaching-Learning* processes. Following points are considered in the execution process.

Preparation of Academic Calendar

The SPPU, Pune publish academic calendar for the complete academic calendar for engineering and other faculties.

Contents of Academic Calendar

- Commencement of teaching
- Conclusion of Teaching
- Practical / Oral / Theory Examination dates
- Result declaration dates
- Submission dates
- Holidays

This university calendar is used as a reference point to prepare academic calendar of the institute. Academic calendar is prepared and circulated at least 45 days in advance to all concerned. Such a calendar for Semester II of 2017-18 is uploaded. It mainly consists of start and end dates of the teaching, examination, result declaration and submission dates, Holidays, etc.

The academic calendar for the University and Institute is attached herewith:

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

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

Every Programme department has clearly defined Programme Educational Objectives (PEOs), Programme Learning Outcomes (PLOs) and Course Learning Outcomes (CLOs). They have been articulated by taking inputs and suggestions from every stake holder.

- Programme Edctional Objetives (PEOs), Progmme Learning Out comes (PLOs) and Course Learning Outcomes (CLOs) are nicely stated and displayed on notice boards and discussed in the class rooms as well as available on website. Also CLOs are available in course files.
- The PEOs and PLOs are aligned with institute vision and mission statement.
- The institute is affiliated to the SPPU, Pune. The curriculum is defined by it is used to guide the process for defining PEOs. The defined PEOs are refined and defined in association with the stakeholders annually.

PROGRAM EDUCATIONAL OBJECTIVES:

- **P**ossess strong fundamental concepts in mathematics, science, engineering and Technology to address technological challenges.
- **Core Competence: P**ossess knowledge and skills in the field of Computer Science & Engineering and Information Technology for analyzing, designing and implementing complex engineering problems of any domain with innovative approaches.

- **Breadth: P**ossess an attitude and aptitude for research, entrepreneurship and higher studies in the field of Computer Science & Engineering and Information Technology.

- **Professionalism: H**ave commitment to ethical practices, societal contributions through communities and lifelong learning.

- **Learning environment:P**ossess better communication, presentation, time management and team work skills leading to responsible & competent professionals and will be able to address challenges in the field of IT at global level.

Program Outcomes:

1. An ability to apply knowledge of computing, mathematics including discrete mathematics as well as probability and statistics, science, and engineering and technology;
2. An ability to define a problem and provide a systematic solution with the help of conducting experiments, as well as analyzing and interpreting the data;
3. An ability to identify, formulate, and provide systematic solutions to complex engineering problems;
4. An ability to use the techniques, skills, and modern engineering technologies tools, standard processes necessary for practice as a IT professional;
5. An ability to apply mathematical foundations, algorithmic principles, and computer science theory

in the modelling and design of computer-based systems with necessary constraints and assumptions;

6. An ability to analyze the local and global impact of computing on individuals, organizations and society;

7. An ability to understand professional, ethical, legal, security and social issues and responsibilities;

8. An ability to function effectively as an individual or as a team member to accomplish a desired goal(s);

9. An ability to engage in life - long learning and continuing professional development to cope up with fast changes in the technologies/tools with the help of electives, professional organizations and extra - curricular activities;

10. An ability to communicate effectively in engineering community at large by means of effective presentations, report writing, paper publications, demonstrations;

11. An ability to understand engineering, management, financial aspects, performance, optimizations and time complexity necessary for professional practice;

12. An ability to apply design and development principles in the construction of software systems of varying complexity.

The PEOs, POs, COs & PSOs for all the courses are attached herewith:

File Description	Document
COs for all courses (exemplars from Glossary)	[View Document](#)
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response:

The institute follows student centric education system in which the focus is laid on what the students are expected to be able to demonstrate at the end of a module or program or we can say after the learning period.

Teaching Learning Process cycle consists of three phases, namely, Planning Phase, Action Phase and lastly the Measure and Analysis phase. The first one being the Planning phase the course Outcome and Objectives are set and the curriculum is designed. Also the method of assessment and schedule of assessment is done.

The second phase is an Action phase, where content delivered the question paper for assessment is drawn and internal assessments are conducted and evaluation is done.

In the third phase, Measure and Analysis phase, based on the marks obtained by the students we need to measure the COs and POs attainment, analyze and take appropriate actions so that there is a continuous improvement. There are two methods for measurement of attainment of outcomes, one is the direct method

and another is an indirect method of assessment. The method proposed pertains to the direct method, where analysis done is based on the Marks obtained by students across the whole class for that course.

The process of attainment of Cos and POs starts from writing appropriate COs for each course in the four year engineering degree program. The course outcomes are written by the respective faculty member using action verbs of learning levels as suggested by Bloom Taxonomy. Then, a correlation is established between COs and POs and COs on the scale of 0 to 3, 0 being no correlation, 1 being the low correlation , 2 being medium correlation and 3 being high correlation . A 6x12 mapping matrix of Cos - POs is prepared in this regard for all courses in the program. Course Outcomes and the CO – PO mapping matrix for a sample course is shown in the following table.

Table 1: Course Outcomes	
Class	BEIT
Semester	VII
Course Name	Information & Cyber Security
Course Code	414453
Course Outcome #	Course Outcome
C401.1	Analyze what are the common threats and attacks faced today
C401.2	Apply the basic principles and techniques when designing a secure sys
C401.3	Analyze how today's attacks and defences work in practice
C401.4	Assess threats for their significance and gauge the protections and limitations today's technology

Table 2: Mapping of Course Outcomes with Program Outcomes

CO#	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P
C401.1	2	3	3	-	-	3	-	-	-	
C401.2	-	-	3	-	-	3	2	3	-	
C401.3	-	2	2	3	2	-	-	-	-	
C401.4	-	2	2	-	3	3	-	-	-	
C401	0.5	1.75	2.5	0.75	1.25	2.25	0.5	0.75	-	

The attainment of Course Outcomes for all the courses are attached herewith:

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6.3 Average pass percentage of Students

Response: 89.49

2.6.3.1 Total number of final year students who passed the university examination
Response: 945

2.6.3.2 Total number of final year students who appeared for the examination
Response: 1056

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Database of all currently enrolled students	[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 0

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

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
List of project and grant details	[View Document](#)

3.1.2 Percentage of teachers recognised as research guides at present

Response: 2.5

3.1.2.1 Number of teachers recognised as research guides

Response: 2

File Description	Document
Any additional information	[View Document](#)
Institutional data in prescribed format	[View Document](#)

3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years

Response: 0

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

Response: 1

File Description	Document
Supporting document from Funding Agency	[View Document](#)
List of research projects and funding details	[View Document](#)
Any additional information	[View Document](#)
Funding agency website URL	[View Document](#)

3.2 Innovation Ecosystem

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

Response:

Institute is having separate R&D cell. The R&D cell comprises of faculty members from various departments of the institute. This committee oversees the smooth and efficient coordination of research and development activities in the institute, thus fostering overall growth. A senior faculty heads this cell in the capacity of Dean (R&D), with the principal presiding over.

Aims and Objectives of R&D Cell

Following Aims and Objectives have been set by the institute for itself with regard to R&D activities.

Aims

- To inculcate the spirit and culture of research amongst faculty and students.
- To enhance interaction and cooperation between researchers for interdisciplinary and multidisciplinary work.
- To forge academic and research collaborations with national and international universities, government agencies and industries.
- To establish links with various R&D organizations and funding agencies for sponsored and contract research.
- To take up problems faced by local industry and provide solutions to them.
- To work towards development of NMIET as a renowned R&D centre.

Objectives

- To organize research promotion events like conferences, seminars, workshops, invited lectures, webinars.
- To motivate faculty for doctoral and post doctoral research.
- To encourage faculty to undertake research projects in thrust areas in science and technology with funding from various national and international agencies.
- To promote research publications.

Initiatives taken to inculcate the spirit of research amongst faculty and students are as follows:

Following research policy was framed.

- Financial assistance is provided for publications
- Facilities such as flexibility in timings, use of laboratories etc are extended to faculty as per requirement
- Implementing a policy for distribution of Testing and Consultancy charges to motivate faculty for providing consultancy
- Faculty with an aptitude for research are identified. Seed money is provided to young faculty to implement their research project**.** More experienced faculty are encouraged to apply and obtain research grants from various Government and non- Government,
- Generating awareness amongst the researchers and providing support related to various proposal formats of different funding agencies, budget, purchases of equipment and material under research schemes, account and audit of project expenditure, any additional infrastructure requirements of the researcher etc.
- Increasing faculty and student publications by providing financial assistance.
- Collaborative research partnerships with academic institutes and industry are encouraged and fostered. Collaborating/partnering with research institutes/ laboratories.
- Assistance is provided for filing patents.
- An Industry Institute Interaction Cell works in close coordination with the industries and the institute for encouraging both students and faculty to work on live projects. (Obtain industry sponsored projects).
- An initiative is taken by Library to help researchers in understanding recent updates of their publications in terms of citation index, h-index, etc.
- In-house development of both lab equipment and software.

Entrepreneurship Development Cell:

EDC encourages forging a relationship between the industry and the institution. Individual department interacts with industry to ascertain its needs to fill the gap in curriculum. The gap is filled by arranging workshops addressed by industry personals. Industry institution relationship works in the following areas: Industrial visits for students and faculties, Field and site visits of students.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response: 7

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

2016-17	2015-16	2014-15	2013-14	2012-13
3	1	1	1	1

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

3.3 Research Publications and Awards

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

Response: Yes

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

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

Response: Yes

File Description	Document
List of Awardees and Award details	View Document

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 5

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 5

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document

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

Response: 0.85

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

2016-17	2015-16	2014-15	2013-14	2012-13
78	46	37	49	14

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

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

Response: 0.1

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

2016-17	2015-16	2014-15	2013-14	2012-13
19	2	4	1	0

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

3.4 Extension Activities

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

Response:

- Institute involves the faculty and students in community work. This helps the students to learn ethical values and understand their responsibilities, and develop as good citizens.
- Social activities like tree plantation and RTO camps are organized. Faculty members and students visit the orphanage in the vicinity of the institute, provide support and interact with them.
- Faculty and students actively participate in Swachh Bharat Abhiyaan in campus and in and around Talegaon city.
- Humanitarian aid is proactively contributed by one and all in the event of
- Students regularly publish the articles in the newspaper which help to literate the common citizen of developments in technology.
- Institute implements the Earn and Learn Scheme of the University. This helps the student to understand the value of labor.
- Institute has an active NSS cell through which different social activities are planned for each academic year.

Table 3.4.1: Programs conducted related with social issues and holistic development :

Name of the activity	Organising unit/ agency/ collaborating agency	Year of the activity	Number of teachers participated in such activities	Number of participated activities	
Karmaveer Bhaurao Patil Earn & Learn Scheme	SPPU, Pune	2017-18	2	12	
Speical Guidance Scheme	SPPU, Pune	2017-18	2	14	
Personality Development Scheme	SPPU, Pune	2017-18	2	50	
Disaster Management	SPPU, Pune	2017-18	2	45	
Environment Awareness	PUC Camp	2017-18	3	35	
Placement for rural students	NMIET	2016-17	4	75	
Karmaveer Bhaurao patil Earn & Learn Scheme	SPPU, Pune	2016-17	2	14	
Karmaveer Bhaurao patil Earn & Learn Scheme	SPPU, Pune	2015-16	2	23	
Vidyarthani Vaqtimahatwa Vikas Yojana	SPPU, Pune	2015-16	2	104	
Disaster Management	SPPU, Pune	2015-16	2	90	
Karmaveer Bhaurao patil Earn & Learn Scheme	SPPU, Pune	2014-15	2	12	
Computer Data Operator	Yuva Jagar (MITSC)	2014-15	4	24	
Karmaveer Bhaurao patil Earn & Learn Scheme	SPPU, Pune	2012-13	2	32	
Disaster Management	SPPU, Pune	2012-13	2	80	

File Description	Document
Link for Additional Information	<u>View Document</u>

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

Response: 5

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

2016-17	2015-16	2014-15	2013-14	2012-13
0	3	2	0	0

File Description	Document
Number of awards for extension activities in last 5 years	<u>View Document</u>
e-copy of the award letters	<u>View Document</u>
Any additional information	<u>View Document</u>

3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years

Response: 5

3.4.3.1 Number of extension and outreach programs conducted in collaboration with industry,community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc.,year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	0	3	0

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

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

Response: 6.46

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

2016-17	2015-16	2014-15	2013-14	2012-13
126	108	25	15	0

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

3.5 Collaboration

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

Response: 39

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

2016-17	2015-16	2014-15	2013-14	2012-13
17	14	4	1	3

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

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

Response: 13

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	3	2	2	2

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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

The institution ensures adequate availability and optimal utilization of physical infrastructure as it is critically linked to the vision of the college–'to create an environment of excellence in education' through technologically advanced pedagogical tools.

At the beginning of the academic year need-assessment for replacement / up-gradation / addition of the existing infrastructure is carried out based on the suggestions from BOS members, Heads of the departments, lab technicians and system administrator after reviewing course requirements, computer-student ratio, budget constraints, working condition of the existing equipment and also students' grievances. The Time Table committee plans ahead for all requirements regarding classrooms, laboratories, furniture and other equipments.

- Optimal deployment of infrastructure is ensured through conducting workshops/awareness programs/training programs for faculty on the use of new technology.
- Effective utilization of infrastructure is ensured through appointment of adequate and well qualified lab technicians/system administrator.
- The optimal utilization is ensured through encouraging innovative teaching – learning practices.
- The available physical infrastructure is optimally utilized beyond regular college hours, to conduct certificate courses, co-curricular activities/extra - curricular activities, parent teacher meetings, Campus Recruitment Training classes, campus recruitments, meetings, seminars, conferences etc.,.
- It is used as an examination centre for Bank Recruitment examinations, Government examinations/University Examinations like PET, GATE, MPSC, etc.

  ○ **Academic Facilities**

Table 4.1.1: Academic facilities

Particulars	Description	For existing intake		
		Nos.		Area
		Required	Available	Required
Class Rooms	Good acoustic conditioned, ergonomically designed classrooms with glass boards and LCD projection & Internet facility	20	21	1320
Tutorial Rooms	Well equipped with green board, benches	05	04	165
Laboratories	Well equipped with multiple sets of apparatus.	40	44	2640
Workshop	Well equipped in all respect to conduct workshop activities.	01	02	200
Seminar Hall	Seating capacity 150 students with LCD projection	03	04	396

	and Public Address system and white board			
Computer Centre	Equipped with latest Configuration Desktops and software	01	01	150
Drawing Hall	Equipped with drawing boards	01	01	132
Library & reading room	Equipped with digital library facility	01	01	400

Computing Facilities

Sr. No.	Particulars	Available
1	Desktop Computers	478
2	SERVERS	5
3	PRINTERS	45
4	CD WRITERS	16
5	ROUTER	1
6	FIREWALL	2
7	SWITCHES	32
8	LAPTOPS	7
9	PROJECTORS	32
10	PROJECTOR ACCESSORIES	48
11	SCANNERS	15
12	CCTV CAMERA	59
13	Beagle Bone Kit	5
14	Wireless Sensor Kit	3

Please find the attached files herewith for

1. Architecture Audit Report

2. AICTE Deficiency Report

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response:

- To encourage personality development, team spirit and leadership qualities among students, the institute encourages students to participate in various sports and games at different levels – University to International level with dedicated sports director.
- Four seminar halls with area of 600 Sq.M. is available in the institute for college level cultural activities like Fresher's the annual social gathering and for conducting workshops, STTPs, FDPs, Alumni Meet, UGCON, VLCi, Career Guidance, etc for students and staff members to improve their social and cultural talents.
- 57255 Sq. M.Professional Sports ground has been developed for cricket, basket-ball, tennis, football, volleyball etc. Sports competition including adventure sports are conducted every semester.
- A well equipped gymnasium of area 47.25 Sq.M is exists inthe campus for doing exercises in gymnasium.
- playing chess, table tennis, carom, etc
- participate in NSS camps every year. Blood donations camps, social awareness camps, gram swachhata abhiyan camps and one act plays are the commonly organized events by the NSS cell of the institute.
- Students are encouraged to organize various cultural activities inthe college. Festivals like Foundation Day, Independence Day, Republic Day, Tilak Jayanti, Mahatma Gandhi Jayanti, Shiv Jayanthi, Ganesh Festival, Dahi Handi, Durga Puja, Teacher's Day, Engineer's Day, Saraswati Puja, Dashahara, etc are celebrated by students actively.

Sports Facility

Please find the attached document for Sports Facility and area availaible in the institute.

Particulars	Area		Year of Establishment	U
	Required	Available		
Seminar Hall	264	600 SQ. M	2009	
Table Tennis	100	45ft	2009	
Sports Hall		500 Sq.M	2009	
Kho-Kho (Pole-pole)		24 M	2009	Twi
Volley Ball		162 Sq. M	2009	
Site Area		2.5 M	2009	
Gymnastic Hall		47.25 Sq. M	2009	
Kabaddi		130 Sq. M	2009	Twi
Carom		47.25 Sq. M	2009	
Lawn Tennis (Singles)		2106 Sq. M	2009	Twi
Lawn Tennis (Doubles)		2808 Sq. M	2009	Twi

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 25

File Description	Document
any additional information	[View Document](#)
Number of classrooms and seminar halls with ICT enabled facilities	[View Document](#)
Link for additional information which is optional	[View Document](#)

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

Response: 90.19

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

2016-17	2015-16	2014-15	2013-14	2012-13
178.41	242.64	176.94	166.97	108.47

File Description	Document
Any additional information	[View Document](#)
Details of budget allocation, excluding salary during the last five years	[View Document](#)
Audited utilization statements	[View Document](#)

4.2 Library as a Learning Resource

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

Response:

* The college has central library and four departmental libraries. There is an Open Access Catalogue for students and staff. The reading room is well furnished to accommodate students at a time and provides conducive environment for study. Exclusive reference section is available in the library. A visitor's book is maintained for students and staff.

* New arrivals of books and journals are displayed on separate stands and racks. Each student gets

* Security of resources is ensured through a system of checking at the exit point for all resources borrowed by the users. Visitors are also required to sign noting the time of entry and exit. CCTV cameras are installed in the library for strict surveillance.

Web **OPAC** (Online Public Access Catalogue) facility is made available through SLIM21 Library Management Software to know the bibliographical details about the collection. One separate node is made available in the Central Library for **OPAC** facility. And as it is a Web **OPAC**, user from any location can search the library collection. Search by giving Title, Author, and domain can be carried out.

Electronic Resource Management package for e-journals

The library subscribes to IEEE All-Society Periodicals package. In addition to that, link to scholarly open access journals/database is also available on the Library webpage.

A well-equipped Digital Library with **18** nodes having Internet connectivity is housed in the Central Library for access to E-Resources. As the access facility to e-journals is multi-user and IP address-based, students can access the E-Resources from anywhere in the campus.

Library Automation:

All the active book collection is updated in the SLIM21 Library Management Software database and the Web OPAC is available for the users. The issue and return of books has been activated with the SLIM21 Library Management Software.

Facilities available:

No of printers: **01**

Bar Code Printer: **01**

Bar Code Scanner: **02**

Photocopy Machine: **01**

Internet bandwidth: 100 Mbps

Institutional Repository:

a) Article Repository: Published research paper/article of the faculty members: Yes

b) Book Repository   : Published books of the faculty members: Yes

Please find the attached document herewith for SLIM Software screenshots:

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response:

Description of library enrichment which includes collection of Rare Books / Manuscripts & Special Reports

A.Y.	Name of the book/ manuscript	Name of the publisher	Name of the author	Number of copies		Year publis
2017	Emerging Technology Bringing business opportunities	PWC	CII	1		
2017	Road safety Across 4 Es: The corporate guide	FICCI	Pillai, G. K.	1		201
2017	Technology Vision 2035	TIFAC	Kakodkar, Anil (Chairman)	1		201
2017	Human Resource and Skill Requirements in the Auto and Auto Components Sector	NSDC	Ramaswamy Anrayanan	1		201
2017	Human Resource and Skill Requirements in the Electronics and IT Hardware Sector	NSDC	Ramaswamy Anrayanan	1		201
2017	Human Resource and Skill Requirements in the Building Construction and Real Estate	NSDC	Ramaswamy Anrayanan	1		201

	Sector				
2017	Human Resource and Skill Requirements in the Telecommunications Sector	NSDC	Ramaswamy Anrayanan	1	201
2017	Human Resource and Skill Requirements in the It and Ites Sector	NSDC	Ramaswamy Anrayanan	1	201
2017	Innovation @ 2017 : Next Big Idea	CII	CII	1	201
2016	Some Inputs for Draft National Education Policy 2016	Ministry of HRD Govt. of India	HRD of India	1	201
2016	8th India Innovation Initiative 2016	Knowledge Partner		1	201
2015	A Vedic Grammar For Students	Oxford	Macdonell, Anthony	1	191
2015	Kautilyas Arthashastra		Shamasastr, R (ed)	1	
2015	Electromagnetism for Electronic Engineers	Bookboon	Carter, Richard	1	201
2014	Engineering Thermodynamics	Bookboon	Shemmeri, Tarik Al	1	201
2014	Introduction to Electronic Engineering	Bookboon	Vodovozov, Valery	1	201
2014	Introduction to power Electronics	Bookboon	Vodovozov, Valery	1	201
2013	Elements of Heat Engines	Acharya Book Depot	Patel, R C	1	199
2013	Elements of Heat Engines	Pandya, N G & Shah, C S	Charotar Book	1	196
2012	Product Design and Technology	Thierry, M & other	CEDT, Banglore	1	198
2012	Materials and Processes in	Macmillan	DeGarmo, Paul E &	1	198

	Manufacturing		oth.				
2012	Manufacturing Engineering and Technology	Addison Wesley	Jain Kalpak				
				1			19

File Description	Document
Link for Additional Information	View Document

4.2.3 Does the institution have the following:

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

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

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

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

Response: 11.84

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

2016-17	2015-16	2014-15	2013-14	2012-13
14.37	10.87	16.96	9.61	7.38

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

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

Response: Yes

File Description	Document
Details of remote access to e-resources of the library	View Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 7.15

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

Response: 72

File Description	Document
Any additional information	View Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The plans for infrastructural development are given top priority as the College realizes the correlation between adequate infrastructure and effective teaching – learning. The strategies adopted for ensuring adequate infrastructure are as follows:

- At the beginning of the academic year need - assessment for replacement / up gradation / addition of the existing infrastructure is carried out based on the suggestions from BOS members, Heads of the departments, lab technicians and system administrator after reviewing course requirements, computer – student ratio, budget constraints , working condition of the existing equipment and also students grievances.
- Optimal deployment of infrastructure is ensured through conducting workshops/awareness programs/training programs for faculty on the use of new technology.
- Effective utilization of infrastructure is ensured through appointment of adequate and well qualified lab technicians/system administrator.
- Renewal of AMC is done at the beginning of the academic year for the deployed Software applications, UPS and Generators.

The institute has always been reviewing the current needs and accordingly the internet bandwidth is upgraded from time to time.

The plan of up gradation is shown in table 4.3.1A & 4.3.1B

Table 4.3.1 A : Yearwise upgradation of IT Facilities

Financial Year	Student Strength	IT Facility		
		Specification	Quantity	
2017-18	927	Desktop Computers	100	
		Printers	07	
		Projectors	17	
		UPS	1	
		CCTV	49	
2016-17	763	NIL		
2015-16	962	Firewall	1	
2014-15	881	Desktop Computers	30	
		Printers	05	
		Projectors	3	
		Scanners	4	
2013-14	869	Desktop Computers	26	
		Laptop	1	
		Printers	4	
		Scanners	4	
		Firewall	1	
		Switch	14	
		CCTV	10	
2012-13	850	Desktop Computers	35	
		Projector	7	
		Scanner	4	

Table 4.3.1B: Yearwise Internet upgradation

Sr. No.	Financial Year	Student Strength	Internet Upgradation
1	2012-13	850	4 Mbps
2	2013-14	869	4 Mbps
3	2014-15	881	4 Mbps
4	2015-16	962	34 Mbps
5	2016-17	763	34 Mbps
6	2017-18	927	100Mbps

- Institute has upgraded the 4 Mbps Leased line to 34 Mbps Leased Line Internet connectivity and then to 100 Mbps Leased Line over RF.
- The Internet Service Provider (ISP) Tata Tele Services provide connectivity with high fault tolerance.
- Internet connectivity is available in class rooms.
- Video conferencing facility is available at E-learning resource lab.
- Most of the labs are equipped with LCD's for online demonstration to students.

Please find the attached document herewith for upgradation of IT facilities including Wi-Fi:

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

4.3.2 Student - Computer ratio

Response: 1.94

File Description	Document
Any additional information	View Document
Student - Computer ratio	View Document

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

Response: >=50 MBPS

File Description	Document
Any additional information	[View Document](#)
Details of available bandwidth of internet connection in the Institution	[View Document](#)

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

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	[View Document](#)
Any additional information	[View Document](#)
Link to photographs	[View Document](#)

4.4 Maintenance of Campus Infrastructure

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

Response: 1.2

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

2016-17	2015-16	2014-15	2013-14	2012-13
3.76	1.06	2.38	1.93	1.87

File Description	Document
Any additional information	[View Document](#)
Details about assigned budget and expenditure on physical facilities and academic facilities	[View Document](#)
Audited statements of accounts.	[View Document](#)

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

Response:

- The college has Maintenance Committee that oversees the maintenance of buildings, classrooms and laboratories.
- The Maintenance committee is headed by the Office Superintendent who in turn monitors the work of the Supervisor at the next level. The Supervisor is accountable to the Office Superintendent and functions as the coordinator who efficiently organizes the workforce, maintaining duty files containing details about their individual floor - wise responsibilities, timings, leave etc. The maintenance officer conducts periodic checks to ensure the efficiency / working condition of the infrastructure.
- Adequate in - house staff is employed to meticulously maintain hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. Classrooms, Staffrooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by Non - teaching staff assigned for each floor. Wash rooms and rest rooms are well maintained. Dustbins are placed in every floor. The Green Cover of the campus is well maintained by a full time gardener.
- Optimum working condition of all properties/ equipment on the campus is ensured through annual maintenance contracts (AMC). The AMC purview includes maintenance of Generator, Elevator, Air Conditioners, CCTV cameras and Water Purifiers. Apart from contract workers, the college has trained in - house electricians and plumbers.
- Lab assistants under the supervision of the System administrator maintain the efficiency of the college computers and accessories.
- Parking facility is well organized. It is efficiently maintained by annually renewed contract employees.
- The campus maintenance is monitored through surveillance Cameras. Proper inspection is done and verification of stock takes place at the end of every year.
- Periodic reporting on requirements of repairs and maintenance are submitted by the HODs to the Administrative office. The requirements are collectively processed in every semester break so as to keep things ready for the new semester.
- Pest control of library books and records is done every year by the maintenance department.
- Estate office manager and his team are involved in the maintenance of infrastructure facilities. This team looks after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing and house-keeping.
- The non-teaching staff is also trained in maintenance of science and computer equipment.
- The Estate office workers look after the maintenance of rest rooms, approach roads and neatness of the entire premises. Housekeeping services are regularly executed and monitored.

A] Electrical Maintenance of Generator, UPS, Batteries, EPABX)

- Monitor electrical equipment such as Generator, UPS, Batteries, EPABX monthly and enter the condition/Status of equipment in Log book
- Call the contractor (belonging to equipment) in case of major fault. The contractor analyses the fault and submit its report.
- If the replacement of any part is necessary then call the quotations & purchase as per centralized purchase procedure.
- Inspect the work done by the contractor and ensure smooth functioning of equipment.
- Report the completion of work to the Principal and Registrar

Please find the attached document list of Maintenance Committee members with their responsibilities:

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

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 54.22

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

2016-17	2015-16	2014-15	2013-14	2012-13
616	548	408	402	347

File Description	Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)
Upload self attested letter with the list of students sanctioned scholarships	[View Document](#)

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

Response: 0.28

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

2016-17	2015-16	2014-15	2013-14	2012-13
5	3	2	2	0

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

5.1.3 Number of capability enhancement and development schemes –

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

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Any additional information	[View Document](#)
Details of capability enhancement and development schemes	[View Document](#)
Link to Institutional website	[View Document](#)

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

Response: 61.53

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

2016-17	2015-16	2014-15	2013-14	2012-13
606	649	442	415	534

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

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

Response: 26.92

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

2016-17	2015-16	2014-15	2013-14	2012-13
334	325	288	138	72

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

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

Response: Yes

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

5.2 Student Progression

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

Response: 26.51

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

2016-17	2015-16	2014-15	2013-14	2012-13
53	55	93	63	14

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

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

Response: 16.13

5.2.2.1 Number of outgoing students progressing to higher education

Response: 35

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

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)

Response: 100

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

2016-17	2015-16	2014-15	2013-14	2012-13
52	12	15	25	8

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

2016-17	2015-16	2014-15	2013-14	2012-13
52	12	15	25	8

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

5.3 Student Participation and Activities

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

Response: 58

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
6	15	21	6	10

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

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

Response:

Yes, Institute has Student Council.

Till last year the selection process was to collect the forms from eligible students. An eligibility criterion is that the student should have cleared all the subjects of previous year and interviewed for the respective post.

Constitution

1. Principal

2. Principal nominated faculty (Student Council Faculty Coordinator)

3. Physical Director
4. NSS Program Officer
5. Three Academic Toppers from F.E., S.E. & T.E.
6. Cultural Student Coordinator
7. Sports Student Coordinator
8. NSS Coordinator
9. Principal nominated two Girls Representatives

Student Council Executive committee	A.Y. 2017-18	A.Y. 2016-17	A.Y. 2015-16	A.Y. 2014-15	A.Y. 2013-14
Chairman	Dr. Rajendra Kanphade	Dr. Rajendra Kanphade	Dr. Rajendra Kanphade	Dr. Rajendra Kanphade	Dr. Rajendra Kanphade
NSS Officer	Prof. Swapnil Bandgar	Prof. Sonali Kulkarni	Prof. Sachin Zagirdar	Prof. Sachin Zagirdar	Prof. Sachin Zagirdar
Physical Director	Mr. Rajendra Landge	Mr. Rajendra Landge	Mr. Rajendra Landge	Mr. Rajendra Landge	Mr. Rajendra Landge
Sports Secretary (Student)	Mr. Avinash Patil	Rohit Lawate	Arpti Salvi	Vikram Mohite	Tushar Deshprabhu
NSS Representative (Student)	Tanuja Dhore	Tanuja Dhore	Shruti Joshi	Shruti Joshi	Bhavana Bhawar
Cultural Secretary (Student)	Mr. Ritesh Sarode	Siddhi Pawar	Sonali Dalvi	Nitin Kakad	Prashant Shinde
Girls Representative-1 (Student)	Ms. Dhanashri Titirmare	Pooja Gade	Priyanka Ghorpade	Akshata Pokharkar	Pranali Mule
Girls Representative-2 (Student)	Ms. Aarya Singh	Neha Jundare	Akshata Pokharkar	Snehal Dhamale	Supriya Sutar

Funding

There is no funding from any Govt. body. Institute bares all the expenses.

Activities

The Students' Council organizes many activities through its representative's viz. Sports Coordinator, Cultural Coordinator & NSS Coordinator.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response: 22.4

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

2016-17	2015-16	2014-15	2013-14	2012-13
27	19	16	24	26

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

5.4 Alumni Engagement

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

Response:

- The College has registered Alumni Association with Registration No. **MH/1530/2017/Pune**
- While rejuvenating the memories of the college, a network of old students was achieved.
- Today, it is the backbone of the institution. The institution rests on the rich history of the student's success and glory.
- Association regularly meets and interacts with the management. It is the flag bearer of the developments in the institution.
- The Alumni organizes lectures on personality development. The alumni also help the institution by influencing industries and other agencies in getting placements fests for the institution. The alumni has expanded and strengthened it with new enrolments.
- The alumni appear for various activities and their suggestions are taken into account. Alumni day is celebrated and their achievements are recognized. The successful alumni are selected as guests of honor for awards.

- The Institution has a social networking page and a separate link in the website where the Alumni can register and connect to share their ideas.

Alumni Benefits for Students:

- Personality Development Program
- Career Advising
- Industry Institute Interaction
- Placement assistance
- Project Assistance for final year students
- Arranging seminar for TE/BE students

Alumni Objectives:

1. To bring together students of NMIET youth in every area to act as their representative and coordinate, synchronize and promote their interest in all matters.
2. To utilize the experience, wisdom, zeal, ability and spare time of past students of the NMIET the society for the benefit of the weaker section of the society.
3. To take up public interest matters relating to the past students of NMIET in this area with State and Central Government and Semi Government or private organizations or public co-operations.
4. To promote and provide for education, educational scholarships and medical relief useful to poor and the needy students of NMIET.
5. To promote sports education, culture & knowledge by arranging seminars of past students of NMIET.
6. To make the students career oriented and attain international standard and by sheer professionalism.
7. To arrange seminars and to develop activities for healthy environment, and to avoid pollution developed the habit of tree plantation; cultivate horticulture gardens and agriculture plants in selected areas.
8. To bring about better living condition, mutual co-operation amongst the past students of NMIET by implementing recreational facilities. To develop the library and other necessary activities for past students of NMIET.
9. To help and assist financially or otherwise, old age homes, rescue homes, health care units, family welfare centers, seminars etc.
10. To arrange, conduct and hold seminars, conferences, discussions, symposia etc for past students.

Please find attached herewith Alumni Association Certificate:

Committee Members:

Sr. No.	Name	Designation
1	Mrs. Gurpreet Kaur Bhatti	President
2	Mrs. Komal Dattatray Dabhade	Secretary
3	Mr. Milind Laxman Kale	Treasurer
4	Mr. Ajinkya Ashok Bhegade	Member
5	Mr. Pranit Bakulesh Parikh	Member
6	Mr. Vinayak Vasudeo Awasare	Member
7	Mr. Somnath Yashwant Malpote	Member

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

5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	[View Document]

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

Response: 10

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

2016-17	2015-16	2014-15	2013-14	2012-13
2	2	2	2	2

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

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

VISION - 2017

We envision being dynamic-leading institute of practice engineering and industrial research in the learning environment that promotes self-esteem, self-learning and innovative thinking in learners to be a successful professionals and member of society.

MISSION

The Mission of the Institute is -

"Holistic development of creative learners for employment/self-employment by imbibing a unique value system, transparent work culture, conducive and excellent academics and physical environment. Our mandate is to generate, preserve and share knowledge for developing a vibrant society."

The distinctive characteristics of the Institute are defined in the mission as follows-

- The Institute has been set up with a mission to impart such knowledge as may be necessary for the holistic development of students thereby making them capable of being better employable and at par with the highly competitive career market.

- The Institution follows a three-fold system which involves curricular, co-curricular and extra-curricular activities. The curriculum being followed is designed in such a way so as to enhance and empower the knowledge base of students through a unique value system, transparent work culture, and excellent academic and physical environment.

- The main focus is on the recent trends in technology with project based learning, creativity and technology transfer through Industry-Institute interactions.

- The Institute highly supports to dynamic learning through project based learning concepts which is innovative idea in engineering education. Creativity and technology transfer is also one of the major concepts implemented through various national level workshops like *TECHFEST* and various programs to explore patent filing for staff and students. This strategy helps to generate, preserve and share knowledge for developing a vibrant society, by imparting quality education.

File Description	Document
Link for Additional Information	[View Document](#)

6.1.2 The institution practices decentralization and participative management

Response:

Decentralization

Institute has a mechanism for delegating authority and providing operational autonomy to all the various functionaries to work towards decentralized governance system.

1. Principal Level

The Governing Body delegates all the academic and operational decisions based on policy to the Academic Monitoring Committee (AMC) headed by the Principal in order to fulfill the vision and mission of the institute. AMC formulates common working procedures and entrusts the implementation with the faculty members.

2. Faculty Level

Faculty members are given representation in various committees/cells and allowed to conduct various programs to showcase their abilities. They are encouraged to develop leadership skills by being in charge of various academic, co-curricular, and extracurricular activities. They are given authority to conduct industrial tours and to have tie-up with industry experts and appointed as coordinator and convener for organizing seminars/workshops/conferences/FDPs. Other parts of the institute like sports, library, etc. have operational autonomy under the guidance of the various committees.

3. Student Level

Students are empowered to play an active role as a coordinator of students associations, co-curricular, extra-curricular and NSS activities.

Participative Management

The institute promotes a culture of participative management by involving staff and students in various activities. All decisions of the institution are governed by management of facts, information and objectives. Both students and faculties allowed expressing themselves of any suggestions to improve the excellence in any aspect of the Institute.

1. Strategic Level

The Principal, dean academics and staff members are involved in defining the policies/procedures, framing guidelines and rules/regulations pertaining to admission, placement, discipline, grievance, counseling, training & development, and library services etc., and effectively implementing the same to ensure smooth and systematic functioning of the institute.

For the various programs to be conducted by the institute staff members meet, discuss, share their opinion and plan for the event and form various committees involving students.

Staff members are also involved in deciding academic activities and examinations to be conducted in

institute.

2. Functional Level

At functional level the faculty members participate in sharing the knowledge by discussing on latest trends/technology during faculty meeting. Staff members are involved in preparation of annual budget of institute. Faculty members also write joint research papers and share their knowledge.

3. Operational level

The Principal of the institution is a member secretary of the GB. The GB gives suggestions and monitors the procurement, introduction of new programs and welfare activities.

The Principal of the institution is responsible for academic, nonacademic and administrative activities of the institution.

On behalf of the institution, he interacts and corresponds with AICTE, Govt. of Maharashtra, UGC, Affiliating University, etc.,

The budget is earmarked for staff members and students to participate in various programmes organized by the institute. All the staff members actively participate in implementing the policies, procedures, and framework designed by the management in order to maintain and achieve the quality standards.

Office staff is involved in executing day to day support services for both students and faculties.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2 Strategy Development and Deployment

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

Response:

Yes, the Institute has a perspective plan for development for next ten years. The institution takes effort in finding the key performance indicators for performance assessment and development. It addresses the issues from the stake holder's perspective and takes steps to fulfill their requirements.

The Institute has following Perspective/Strategic plans:

- Permanent affiliation by Savitribai Phule Pune University.
- Approval as a Research Center by the affiliating University.
- Center of excellence in technology to serve for corporate social responsibility.

- Center of excellence in Satellite Communication, Big Data & Hadoop, MongoDB
- Center of Excellence in VLCi (Visionary Learning Community of India, Pune Region) in association with JICA, Advance Manufacturing Techniques
- Establishment of Incubation Center
- Establishment of SAP Academia
- Center for Career Counseling, Social Awareness
- Center for Awareness to All Government Schemes (FM Radio Station)

1. Community includes farmers, small scale industries and villagers. Finding correct guidance on possible education streams.

2. Our Programs will educate and make aware community of all possible solutions on above stated and additional problems if any.

- Foreign Language Training Center
- Establishment of Sports Academy
- Autonomous Institute / Deemed University

The strategic plan for next ten years 2017 to 2027 is attached herewith:

File Description	Document
Any additional information	[View Document](#)
Strategic Plan and deployment documents on the website	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response:

Governing body

Governing Body is responsible for Policy making and to verifying the reports through the Secretary & Correspondent. The decision making procedures are made at appropriate levels in the organizational hierarchy. Statutory bodies such as IQAC Cell, Anti-ragging Cell etc., as per the university/government guidelines are also included in the organizational structure of the institution. A committee comprising of faculty members and administrative staff are involved in the planning and implementation, academic audit and evaluation. There are different bodies that give academic and administrative leadership to the institution. An optimum level of decentralization through the autonomous departmental system and participative decision making process are in practice.

Functions of various bodies

Various committees are formed in the College for the smooth and efficient management of activities. It also gives the opportunity to the faculty to grow and develop in their extracurricular activity/field and administrative skills. The committees are constituted by the Principal in consultation with HODs for one academic year or until new committees are constituted.

Following is the list of few bodies and their functions:

1. Examination Committee

To help and ensure smooth and orderly conduct of examinations in the institute as per guidelines issued by the University of Mumbai from time to time.

2. R&D Cell

To oversee and supervise Research and Development activities in the Institute and to ensure performance, by proper monitoring of research projects and engagement in all the research thrust areas, with the management.

Service rules and procedures

The institution strictly follows the service rules according to the AICTE, UGC and SPPU norms. It's been uploaded on the website too. The institution runs for 8 hours. The teaching and non-teaching faculty have the benefits of EPF/GIS/Gratuity and Casual/Earned/Medical/Maternity/Compensatory Leaves.

Recruitment is taken place according to the norms of the University and UGC. The university/management selection committee comprising of Principal, Dean Academics, HOD and Subject experts decide the worthiness of the faculty member by his/her performance in the interview according to the parameters.

Recruitment Policies:

The institute follows AICTE/SPPU norms for staff recruitment. The HoDs review requirements as per Teaching Load and submit the consolidated staff requirement to Principal through Dean Academics and conduct the recruitment as per the norms.

Promotional Policies:

A promotion is the shift of an employee from one position to another with more responsible duties or requiring more skills. Promotions are based on merit and qualifications required for the higher position. A pay rise is eminent in case of promotions but the Management reserves the right to do so.

Grievance redressal mechanism:

Committee members meet to discuss and resolve the grievances, if any received in writing from the concerned students/staff. The committee maintains the minutes of the meetings and submit the copy of the same to the Director and Principal. The committee conveys the decision to the aggrieved students/staff in writing from the institution.

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

6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: A. All 5 of the above

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

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

Response:

Effectiveness of minutes of meetings and implementation of their resolutions through various bodies' cells committees

Sr. No.	Title of Committee	Date of meeting	Item for action	Action taken
1	Management (LMC)	20/07/2016	Subject No. 3 Review of May-17 Exam	Those students who a extra coaching classes
			Subject No. 7 Parking shed under quality improvement programme from SPPU Pune	Rs. 5 Lacs grant rec construction of park completed.

2	Management (LMC)	04-10-2016	Subject No. 4 Fees fixation from fee regulating authority from A.Y. 2016-17 & 2017-18.	Proposal submitted in t fixed A.Y. 2016-17 & 2 67580
			Subject No. 6 Budget for the A.Y. 2016-17	New laboratories for M Engineering devel
3	Management (LMC)	17/10/2015	Subject No.3 Appointment of faculty for Third Year to Mechanical Engineering. As per advt. dated: - 11/05/2015 & interviewed in June 2015.	Faculty confirmed & from July 201
			Subject No. 5 Development of New Laboratory for Mechanical Engineering, Dynamic of machinery lab, Refrigeration and air conditioning lab, CAD CAM automation lab, Power plant Engineering lab and Mechatronics lab.	Lab developed & hand Mechanical Depart NMIET.
4	Management (LMC)	15/05/2015	Subject No. 5 Admission policy for the A.Y. 2015-16.	Rs. 5000/- to Rs. 1 concession in fees gi students.
			Subject No. 7 Bus facility for the A.Y. 2015-16.	Free bus facility for l students & remaining reasonable fee ch
5	Management (LMC)	18/11/2014	Subject No. 3 Education Equipment & Sports Equipment under Quality Improvement scheme form SPPU for the A.Y. 2014-15.	Education equipment equipment purch
			Subject No. 5 Spicer SNS Nutan Jivika center for skilled training 8th, 9th & 10th students.	Skilled training for stud from 2015.
6	Management (LMC)	15/04/2014	Subject No. 2 Submitted proposal to AICTE, DTE & SPPU to increase intake Mechanical Engineering 60 to 120 & new started to PG courses Computer Networks & Communication Networks 24 each capacity for the A.Y. 2014-15.	U.G. Mechanical Engi to 120 & new starte courses Computer Ne Communication Netwo Started to July 2
			Subject No. 3 Utilization of grant received of AICTE	Well-equipped labo developed with Meltek
8	Management (LMC)	21/03/2013	Subject No. 3 To improve the result for the A.Y. 2012-13.	To improve the resu coaching classes, freq conducted.

			Subject No. 4 To appointment separate training & Placement officer.	Mr. Ashish Pat|l Cou Training & Placemen appoi|nted.
9	Management (LMC)	12-04-2012	Subject No. 6 Restructuring of laboratories as per AICTE norms.	Restructuring of labora completed during th
			Subject No. 2 Confirmation of Principal to Dr. Rajendra Devidas Kanphade, Vice-Principal.	Dr. Rajendra Devidas confirmed as the Prin 01/04/2012.
10	Management (LMC)	31/05/2012	Subject No. 7 ARC Centre permission from DTE Mumbai.	ARC Centre perm

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.3 Faculty Empowerment Strategies

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

Response:

Institute is always striving to motivate and empower the faculty to create sense of direction and positive awareness to all the departments in the teaching learning processes by:

- Sponsoring those to attend various Programmes like National / International conferences, workshops, STTPs and FDPs carried out at different levels.
- Creating a sense of belongingness amongst faculty members by involving them in various committees.
- Institute has organized Teachers Awareness Programs (TAP) and Teachers Training Programs (TTP) for motivation and empowerment of the faculty.

All the related staff welfare schemes including financial support for PhD, 100% group insurance scheme, Employee Provident Fund (EPF) with 100% gratuity, accidental insurance, free medical treatment, registration fee for FDP programs, maternity leave, medical leaves are provided as per the government and university rules.

Staff on Maternity Leave					
Year	Dept	Name of Staff	Designation	Period	
2016-2017	E& TC	Prof. Bhagyashri A.	Asst. Professor	01/10/2016 to 01/11/	

		Warhade		2017		
2015-2016	IT	Prof. Shradha S. Kirve	Asst. Professor	25/11/2015 to 04/01/2016		
	E& TC	Prof. Harsha Sarode	Asst. Professor	01/07/2015 to 31/05/2016		
2014-2015	Mechanical	Mrs. Rupali Santosh Dabhole	Lab Asst.	16th Feb. 2015 to 30th May 2015		
	Electronics	Prof. Sarika Patil	Asst. Professor	01/10/2014 to 28/12/ 2014		
2013-2014	FE	Mrs. Mrunal Karkhanis	Lab.Asst.	14th Aug. 2013 to 14th Nov. 2013		
	E& TC	Prof. Sushma Bhosale	Asst. Professor	01/10/2013 to 15/05/ 2014		
2012-2013	Comp	Prof. Ashivini Jadhav	Asst. Professor	12th Dec. 2012 to 11th March 2013		

Please find the attached document for Group Insurance Scheme adopted by institute and funds allotted for Faculty Development Programs:

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

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

Response: 100

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

2016-17	2015-16	2014-15	2013-14	2012-13
54	57	50	51	50

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

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

Response: 1.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	1	1	2	0

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	
Reports of Academic Staff College or similar centers	
Any additional information	
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	

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

Response: 42.74

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

2016-17	2015-16	2014-15	2013-14	2012-13
46	20	24	15	8

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers).	[View Document](#)
Details of teachers attending professional development programs during the last five years	[View Document](#)
IQAC report summary	[View Document](#)
Any additional information	[View Document](#)

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

Response:

- The Institute strictly follows all the basic recruitment and promotional policies as stipulated by AICTE, Savitribai Phule Pune University as well as Government of Maharashtra.
- Each and every faculty member completes the self-appraisal procedure every year in the format prescribed by Savitribai Phule Pune University.
- Self-appraisal is done on the basis of the following points:

  - Teaching learning process evaluation
  - Specific duties / tasks assigned by Heads of the Department.
  - Major contribution for the benefit of student/ staff / Institute.
  - Awards/ Rewards obtained by the faculty and staff.
  - Contribution towards extracurricular and co-curricular activities.
  - Execution of exam duties assigned by Savitribai Phule Pune University.
  - Research contribution of staff in terms of research projects, publications and guidance provided to students for involvement in research.
  - The management reviews the performance appraisal for suitable suggestions and remedial actions like regularizing the staff after probation period, deciding the regular increments and deciding promotions. Some of the faculty members have been promoted as per the outcome of the performance reviewer committee, shown in Annexure 6.5.
  - The management reviews the performance appraisal for suitable suggestions and remedial actions like regularizing the staff after probation period, deciding the regular increments and deciding promotions. Some of the faculty members have been promoted and for some faculty members memos are issued as per the outcome of the performance reviewer committee, shown in Table 6.3.5

Promoted Staff					
Year	Department	Name of the Staff	Post before Promotion		
2017-18	Computer Engineering	Prof. Sonu Khapekar	Lab Asst.		
	Mechanical Engineering	Prof. M. S. Kate	Assistant Professor		
	Office	Mr. Santosh Shelke	Peon		
2014-15	Office	Mr.Sudhakar Dhore	Peon		
	Mechanical Engineering	Mr. Milind Ovhal	Foreman		

2013-14	Mechanical Engineering	Mr. Milind Ovhal	Turner (Machinist)	

File Description	Document
Any additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Society Appointed Auditors as follows

1) Internal Auditors

2) Statutory (External) Auditor

- The financial audits are conducted on following dates for last five years
- Audit of the books of accounts of NMIET for AY 2012-13 is done on 22/06/2013
- Audit of the books of accounts of NMIET for AY 2013-14 is done on 20/06/2014
- Audit of the books of accounts of NMIET for AY 2014-15 is done on 26/06/2015
- Audit of the books of accounts of NMIET for AY 2015-16 is done on 20/09/2016
- Audit of the books of accounts of NMIET for AY 2012-13 is done on 20/06/2017

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response: 164242

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

2016-17	2015-16	2014-15	2013-14	2012-13
71682	32560	35000	25000	0

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

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

Response:

The Institute has a well-defined procedure to monitor effective and efficient utilization of available resources for infrastructure, development and teaching learning process. All the major financial transactions are monitored by the office.

The financial resolutions of the institute is monitored and recommended by campus Committee Members. Finally there are trustees of the Society who approve and may guide with regard to financial transaction of the institute. In addition to this, the account of each financial year of the institute is audited by Chartered Accountant. Thus the utilization of financial resources is monitored at several levels.

Philosophy of Governance

NMIET is an educational organization catering the needs for the development of its institutions. All these institutions are engaged in human progress and the focal point of governance is the student.

The philosophy of NMIET is to provide active participation and involvement of Staff concerned in formulating strategies, policies and reviewing the performance of the institute. The hierarchy is complimentary rather than competitive.

Board of Governors

As an organization, the Trust/Society is committed to the accomplishment of the goal to develop excellence in the technical and higher education ensuring highest quality of faculty, resources and infrastructure reinforced with innovations and research on the latest development in education and technologies. Therefore the Board of Governors of the Society is a fine blend of Educationists, Visionaries, Academicians, Researchers, Technocrats, Scientists and Educational Administrators.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.5 Internal Quality Assurance System

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

Response:

The institution has formed an Internal Quality Assurance Cell (IQAC). The cell is coordinated by a team of faculty representatives from all the departments. The formation was institutionalized through formal office order of the Institute. The Institute's existing policies on academic and administrative systems in respect of process of teaching learning and evaluation system, level of satisfaction for academic performances, faculty recruitment and training / qualification enhancement, are of high standard.

Internal Quality Assurance Cell (IQAC)

Sr. No.	Name	Designation	IQAC Role
1	Dr. R. D. Kanphade	Principal	Chairman
2	Mr. V. N. Nandgaonkar	Asst. Prof. Computer Engg	IQAC Coordinator
3	Prof. N. A. Dhawas	Dean Academics	Member
4	Mr. Ramdasji Kakade	Management Representative	Member
5	Mr. Rajesh Maske	Industrialist & Management Representative	Member
6	Mr. Rajesh Sarvadnya	Industry Representative	Member
7	Mr. S. B. Ingle	HOD, Computer Engg.	Member
8	Mr. Nitin Wankhade	HOD,IT	Member
9	Mrs. Gayatri Ambadkar	HOD, E&TC Engg	Member
10	Mr. R. G. Biradar	HOD, FE	Member
11	Mrs. S. N. Patil	ISO Coordinator	Member
12	Mr. Santosh Dabhole	Mechanical Engg.	Member
13	Mr. Vijay Shirke	Registrar, Admin	Member
14	Mr. Pranit Parikh	Alumina	Member
15	Mr. Vijay Navale	T&P, PRO	Member

The Internal Quality Assurance Cell (IQAC) of the institute has been trying to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution and to promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

Following are the major contributions of IQAC:

- Development of Smart Classroom Facility in all the departments
- LAN connectivity encompassing the entire college with higher bandwidth of 100Mbps
- Sensitizing quality assurance policies, mechanisms and outcomes to the various internal and

external stakeholders by teaching and non - teaching members, general meetings, notices, college Website and through Alumni meet, parent teacher meeting.

- Enriching the Library through establishment of tie ups and subscription

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

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

Response:

IQAC takes continuous review of teaching learning process in the Institute. It mainly comprises of Principal, Dean Academics, Heads of the department and departmental coordinators. Before commencement of the term, academic calendar is prepared and all the coordinators ensure that the activities are conducted as per schedule. This committee monitors class wise, faculty wise and subject wise instruction delivery.

Before formation of IQAC, the institute was having ISO committee from Academic Year 2015-16. The institute received ISO 9001 : 2008 certification on The main objective of ISO committee is to monitor teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals, academic audit of all the departments half yearly.

Before ISO committee, the institute has its internal Academic Monitoring Committee (AMC) comprising of Principal, all Head of Departments and senior faculty members. The AMC monitors teaching learning processes, structures & methodologies of operations and learning outcomes at periodic intervals as per norms of institute.

List of Academic Records verified by ISO Auditors

Sr. No.	Record No.	Title
1	ACDM/R/07	Academic Calendar of the Institute for the semester
2	ACDM/R/08	Event Calendar of the Department
3	ACDM/R/09	Department Portfolio Allocation
4	ACDM/R/11A	Teaching Load Information
5	ACDM/R/12	Master Timetable
6	ACDM/R/15	Teaching Plan
7	ACDM/R/17	Progress and Review Report of the Department
8	ACDM/R/18	Goals and Objectives of the Department
9	ACDM/R/19	Student Attendance - Theory session

10	ACDM/R/20	Laboratory Session Plan	
11	ACDM/R/21A	Progressive Laboratory Assessment	
12	ACDM/R/23	Student Allocation to Parent Teacher Guardian –	
13	ACDM/R/23/1	Progressive Information And Counselling Form	
14	ACDM/R/23/2	GFM Record	
15	ACDM/R/24	Meeting Report	
16	ACDM/R/25	GFM Meeting - Department Level Action Taken Report	
17	ACDM/R/26	GFM Meeting –Institute Level Action Taken Report	
18	ACDM/R/29	Student Chapter – Activity Report	
19	ACDM/R/31	Student Achievement Record	
20	ACDM/R/32	Industrial visit/tour report	
21	ACDM/R/36	Event Participation Report	
22	ACDM/R/37	Attendance Monitoring Report	
23	ACDM/R/38A	Academic Monitoring report	
24	ACDM/R/38B	Course file Verification Report	
25	ACDM/R/47	Attendance and Assessment Record of Unit Test	
26	ACDM/R/48	Unit Test result analysis	
27	ACDM/R/49	Mid Term Assessment	
28	ACDM/R/50	Tentative Schedule for Practical/ Oral / project University Examinatio	
29	ACDM/R/51	Final Schedule for Practical/ Oral / project University Examination	
30	ACDM/R/52	Appointment of Substitute Examiner	
31	ACDM/R/53	Attendance and Assessment sheet	
32	ACDM/R/54A	University Result Analysis of Department	
33	ACDM/R/54B	Summary Of University Result Analysis	
34	ACDM/R/55	Last Three Years Comparison Of University Result	
35	ACDM/R/56	Letter to Parents of Poor Performing Students	
36	ACDM/R/57	Undertakings from parents / Students	
37	ACDM/R/58	Parent Feedback	
38	ACDM/R/59	Parent Meet Report	
39	ACDM/R/60	Student Feedback Form	
40	ACDM/R/61	Student Feedback Report	
41	ACDM/R/62	Faculty Appreciation, Improvement letters	
42	ACDM/R/63	Inspection Report	
43	ACDM/R/64	Teaching Learning Non-conformance Review Report	
44	ACDM/R/65A	Student F/b Form of Department	

45	ACDM/R/65A	Summary of department Feedback	
46	ACDM/R/66	List of subjects with requirement for external engagement	
47	ACDM/R/67	Maintenance Record	
48	ACDM/R/68	List of Equipment for obsolescence	
49	ACDM/R/69	Equipment list with Calibration certificate/Calibration report	

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

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

Response: 2.6

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

2016-17	2015-16	2014-15	2013-14	2012-13
3	4	2	2	2

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document](#)
IQAC link	[View Document](#)

6.5.4 Quality assurance initiatives of the institution include:

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

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
e-copies of the accreditations and certifications	View Document
Annual reports of institution	View Document

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

Response:

Our institution has progressed well in last five years. Following is the list of improvements in various categories such as infrastructures, improvements in library infrastructure, quality of students, quality of staff members, improvements in research & development, etc.

Details		2012-13	2013-14	2014-15	2015-16
Infrastructure	Budget Utilization	10847061/-	1,66,97,610/-	1,76,94,459/-	2,42,63,996/-
	Computing Facility	322	348	378	378
	Internet Facility	4 Mbps	4 Mbps	4 Mbps	34 Mbps
Library	Library Budget	738002/-	1096597/-	1625172/-	1164832/-
	Books	766	1263	2817	3202
	Journals & Periodicals	51	99	147	199
	E-Journals	2	6	10	12
Student	Intake	240	240	300	300
	Admissions	152	104	127	123
	Students benefited by scholarships and freeships by government schemes	347	402	408	548
	Students	0	2	2	3

	benefited by scholarships and freeships by non-government schemes					
	Certification Programs	0	0	1	1	
	Students enrolled for Add – on Courses	175	175	311	288	
	Students benefited by guidance for competitive examinations and career counselling	534	415	442	649	
	Students attending VET	72	138	288	325	
	Placements	14	63	93	55	
	Students qualifying in state/ national level examinations	8	25	15	12	
Faculty	Faculty Number	50	52	56	68	
	Faculty with PhD	02	04	04	03	
	Faculty with PG	48	48	52	65	
	Participation of Faculty in Various Bodies	19	25	32	38	
Research & Development	Paper Published	14	49	37	46	
	Books Published	0	1	4	2	
	Extension & Outreach Programs	2	2	2	4	
	Exchange Programs	3	0	3	8	

File Description	Document
Any additional information	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

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

Response: 5

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

2016-17	2015-16	2014-15	2013-14	2012-13
4	1	0	0	0

File Description	Document
Any additional information	[View Document](#)
Report of the event	[View Document](#)
List of gender equity promotion programs organized by the institution	[View Document](#)

7.1.2

1. **Institution shows gender sensitivity in providing facilities such as:**
   1. **Safety and Security**
   2. **Counselling**
   3. **Common Room**

Response:

Institution shows gender sensitivity in providing facilities such as:

1. **Safety and Social Security:**

- A social program which is held outside of the campus for the institute has to provide pick up and drop facility to girls and boys students.
- Institute displays emergency contact numbers in college campus.
- The institute provides the CCTV Surveillance throughout the campus for safety and security purpose.
- The Technical Campus has a robust security Safety and system with multiple checks at entry points for all persons and vehicles. Students wear ID cards at all times and outsiders are checked by security staff before allotting visitor IDs.
- Female faculty members ensure that all girl students leave the campus after late night events.

Female faculty and girl students are regularly counselled on safety and security.

- The institute has made wearing helmet obligatory to all the students and employees while riding two wheelers and using seat belts while driving four wheelers. They are not allowed to park the vehicle inside campus on that basis. Students get involved in the awareness campaign.

2. **Academic Counseling:**

- The faculty in all the departments monitors their academic progress throughout the year. Formal and informal interactions help identify their strengths and weaknesses and provide guidance accordingly.
- Unit tests and open-book tests help the faculty to do academic counseling.

3. **Personal counseling:**

- The faculty of the college carried out the responsibility of taking personal care of students on the individual level. Heads of departments were looking after the welfare of students by providing necessary guidance and assistance.
- Under GFM Activity 25-30 students are assigned to the faculty who look after their personal, academic and psychological well-being. The faculty meets their Parents periodically, understand and analyze their problems and provide solutions.

4. **Common Room**

- Both Girls' and Boys' common rooms are spacious and airy. They have various indoor game facilities like carrom board and chess.
- For Boys Student the Gymnasium room is available.

File Description	Document
Any additional information	[View Document](#)

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)

Response: 38643

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	[View Document](#)
Link for Additional Information	[View Document](#)

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 7.46

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

Response: 2884.5

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 38643

File Description	Document
Any additional information	[View Document](#)
Details of lighting power requirements met through LED bulbs	[View Document](#)

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

The very good location of NMIET inspires inhabitants to remain eco-friendly. Devoid of congested city environment, the staff and students enjoy the nature intimately on this campus. Besides having infrastructure construction as per the necessity for an educational campus, the institute puts in conscious efforts to enhance and nurture the eco-friendly environment on the campus. Monitoring and assessment of the green environment on the campus is done. All possibilities of enriching environment are constantly explored and implemented in planned way.

- Energy conservation:

- Electricity consumption is reduced by turning off electric devices like computers, fans, lights, air conditioner etc. before leaving the rooms.
- The fans and lights in the room can be controlled by a single switch outside the room. Thus at the click of the switch fans and lights of each room, department, the whole institute can be turned off/on.
- Class rooms, laboratories, offices, seminar hall, board room, library, study room, cabins etc. are

equipped with window curtains to reduce heat conduction and reduce the consumption of electricity.

Waste Management Steps include**:**

- **Solid waste management:** Daily garbage is collected by housekeeping personnel and handed over to Municipal garbage vehicle. All waste water lines from toilets; bathrooms etc. are connected with Municipal drainage mains. Waste like plastic, papers etc. are collected and sold out to scrap vendor time to time.

- **Liquid waste management:** Rain water harvesting is also done in the campus by providing suitable catchment areas. In view of the above normal rainfall in the city, the institute has plans to adopt the rain water harvesting to tap this natural resource to recharge the tube wells on the campus. These tube wells supply major chunk of the water to the campus habitation after being treated in the plant.

- **E-waste management :** Non-working switches, electric cables, monitors, keyboard, mouse etc. are stored and properly disposed based upon highest bidding by scrap merchant.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Rain Water Harvesting

Institute having rain water harvesting to its building. All rain water is captured from the catchment area which is the roof of the institute building. Conduits are the pipelines that carry rainwater from the rooftop to the harvesting system. (Poured in the bore well).

Mains water is a precious resource due to increases in demand from our ever growing population. Changes in rainfall patterns in the country have seen both drought conditions and flooding. Rainwater harvesting can provide increase in the ground water level for future water needs.

There is no better quality water available naturally than rainwater. Some say there are health benefits to using rainwater which is not treated with chemicals like our mains water is. Rainwater falls for free – once you have installed a rain harvesting system,

In short, Rainwater harvesting is a process or technique of collecting, storing and using rainwater for irrigation and for various other purposes.

The plan of rain water harvesting is attached herewith.

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

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

Response:

Green Practices

• Students and staff using

- Bicycles
- Public Transport
- Pedestrian friendly roads
- Plastic free campus
- Paperless office
- Green landscaping with trees and plants.

Since inception, the institute has maintained greenest environment on its naturally eco-friendly campus. Every care is taken to ensure that carbon emissions are kept to lowest level. Plantations, Lawns, gardens have been specially developed and are maintained most green. The systems and processes are also checked for their greenness on regular basis.

- **Energy Audit:** The Mechanical Engineering department has been carrying out energy audit of the entire campus. For past two years. Results and the conclusions have been drawn and submitted to management for consideration. Appropriate set of instruments such as an energy analyzer, Clamp-on meters and Lux meters is used for the exercise.

- **Maximized usage of day-light:** The rooms are constructed in such a manner that maximum daylight should be received in class rooms and laboratories. Assessment of daylight availability and its optimum utilization is done regularly.

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

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

Response: 2.34

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

2016-17	2015-16	2014-15	2013-14	2012-13
5.24	3.62	3.87	3.78	4.85

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	View Document
Green audit report	View Document

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

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: C. At least 4 of the above

File Description	Document
Any additional information	[View Document](#)
Resources available in the institution for Divyangjan	[View Document](#)
link to photos and videos of facilities for Divyangjan	[View Document](#)

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

Response: 5

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

2016-17	2015-16	2014-15	2013-14	2012-13
2	1	1	1	0

File Description	Document
Any additional information	[View Document](#)
Number of Specific initiatives to address locational advantages and disadvantages	[View Document](#)

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

Response: 4

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

2016-17	2015-16	2014-15	2013-14	2012-13
3	0	0	1	0

File Description	Document
Details of initiatives taken to engage with local community during the last five years	
Any additional information	

7.1.12
Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

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

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

Response: Yes

File Description	Document
Any additional information	
Provide URL of website that displays core values	

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

Response: Yes

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

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

Response: Yes

File Description	Document
Any additional information	<u>View Document</u>
Provide link to Courses on Human Values and professional ethics on Institutional website	<u>View Document</u>

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

Response: Yes

File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	<u>View Document</u>

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

Response: 19

File Description	Document
List of activities conducted for promotion of universal values	<u>View Document</u>
Any additional information	<u>View Document</u>

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

Response:

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

1. Institute celebrates Veermata Jijabai and Swami Vivekanand Jayanti under NSS program on 12 Jan.
2. Institute celebrates Shiv Jayanti every year on 19 Feb.
3. Institute celebrates Republic day and Independence Day every year.
4. Institute Celebrates Dr. Sarvpalli Radhakrushnan Birth Aniversary as Teachers Day-05 Sept.
5. Institute Celebrates International Yoga day-21 Jan.
6. Celebrating every year "Road safety week-11 Jan to 17 Jan".

Photographs of above events are attached herewith.

File Description	Document
Any additional information	[View Document](#)

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

Response:

Transparency in academic and administrative functions

The functions of the institution and its academic and administrative units are governed by the principles of participation and transparency. Formulation of development objectives, directives and guidelines with specific plans for implementation by aligning the academic and administrative aspects improves the overall quality of the institutional provisions. Effective leadership by setting values and participative decision-making process is key not only to achieve the vision, mission and goals of the institution but also in building the organizational culture. The formal and informal arrangements in the institution to co-ordinate the academic and administrative planning and implementation reflects the institutions efforts in achieving its vision.

Transparency in financial functions

The institution has developed strategies for mobilizing resources and ensures transparency in financial management of the institution. Budgeting and optimum utilization of finance as well as mobilization of resources are the key issues handled by the NMVPM Management. There are established procedures and processes for planning and allocation of financial resources which leads to effective & efficient use of financial resources. The Budget Process which is an inclusive and collaborative process is as follows: Departmental Budget Templates are circulated to collect the Budget Requirements for the forthcoming year. The respective HODs of the departments then submit the requirements in the Standardized format which are consolidated. The various heads of the budget include the department capital requirements, staff cost based on the manpower plan, student & faculty related expenses, event expenses, research & development, administrative expenses including lab consumables, repairs & maintenance & other infrastructure related expenses, etc. The utilization of the current year approved budget along with the budget projected for the forthcoming year is presented to the Finance Committee after discussions in the Executive Committee. After the approval of the finance committee, it is also approved by the Governing Council. Feedback from the stakeholders on a regular basis and acting on the same is an effective mechanism to ensure transparency and effective management.

7.2 Best Practices

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

Response:

Best Practice – 1

1. Title of the Practice

Visionary Learning Community of India (VLCi):

In order to facilitate the small & medium enterprises enhance productivity, the Confederation of Indian Industries (CII) in collaboration with Japan International Cooperative Agency (JICA) & by leadership of Anand Group of Industries launched a special programme called Visionary Laghu-udyog Mitra Mandal.

2. Objectives of the Practice

The principle objective of VLMi is on Make in India for Indian manufacturing industries, so this ambitious drive to succeed, the base of Indian manufacturing viz. MSMEs has to be strengthened.

Objectives:

1. To introduce the concepts, principles and framework of contents of .
2. To acquaint the students with various productivity enhancement techniques.

4. The Practice

1. The principle of the 3s map is to optimize the material movement, formation of space by identifying possibility of space economy & things to see the safety related issues
2. Vmap: The principle of V map is to understand & create the basis of Tier Structure flow, create controlled flow in tier to build productivity & quality in to line or cell.
3. Japanese word which means leveling. The principle of Hei-junka module is to optimize/minimizes the Fluctuations by Customer Requirement as it reaches to subsequent tiers for achieving a smoother production flow.
4. Standardized Work- The principle of standardized work is based on assigning the right work to every individual to small number of man power to minimize the unfair of work, to increase the motivation of individual, increasing productivity & finding opportunity for new skills.

5. Evidence of Success

Student Performance of Observation task:

The student's performed the task of observation. The theme of observation was on Safety & Cleanliness.

6. Problems Encountered and Resources Required

The faculty training to implement various modules such as observation skill, 3S map, V map, Hei-junka is necessary & the onsite performance along with industry interaction is highly recommended.

Best Practice – 2

1. **Title of the Practice**

 UGCON -2017 (Undergraduate Conference)

2. **Objectives of the Practice**

Conference is to provide an opportunity to explore topics by discussion and to identify and sort out any problem. Presenting paper along with the Seminar prove beneficial for throughout development of student.

3. **The Context**

Presentations are a great way to have students practice all language systems areas & skills. They also build confidence, and presenting is a skill that most people will need in the world of work.

4. **The Practice**

Presentation skills are extremely useful both in and outside the classroom. After completing a project, a presentation is a channel for students to share with others what they have learned.

5. **Evidence of Success**

Majority of students of Final year of all branches published research paper on their project work.These papers were published in conference proceeding. Photographs are attached in additional information uploaded.

6. **Problems Encountered and Resources Required**

 Project Coordinators from each department along with UGCON coordinator need to arrange and decide the portfolio of Program, Participation of student is necessary.

File Description	Document
Any additional information	[View Document]()
Link for Additional Information	[View Document]()

7.3 Institutional Distinctiveness

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

Response:

The core theme of the mission and vision that stating the distinctiveness of institute is elaborated in the following case studies.

Part-A

MISSION

Our mandate is to generate, preserve and share knowledge for developing a responsive individuals and professionals.

VISION-2027

"We envision being dynamic-leading institute of 'practice engineering and industrial research' in the learning system that promotes learners towards development of 'self-esteem, self-learning and creativity & innovation' leading to development of successful professionals and members of society."

Part-B

1. Case Study of "Process & Mechanism of UGCON"

Objectives of the Practice

The main objective of this College level Conference is to provide an opportunity to explore topics by discussion and to identify and sort out any problem. Presenting paper along with the Seminar prove beneficial for throughout development of student.

The Practice

Presentation skills are extremely useful both in and outside the classroom. After completing a project, a presentation is a channel for students to share with others what they have learned. It is also a chance to challenge and expand on their understanding of the topic by having others ask questions. And in the world of work, a confident presenter is able to inform and persuade colleagues effectively. Paper Presentation Helps to improve and develop unique ability in students like Shy students cannot present alone Students can support each other before, during and after the presentation getting ready for the presentation is a practice task in itself. UGCON proves to be best practice in developing hidden talent in student making them more confident and professionally ready towards future .Students participate more enthusiastically in this type of Conference if there are some appreciating gift are given so, accordingly Prize money has been decide to build uptheir interest.

Evidence of Success

Students from various departments participate enthusiastically in UGCON, Making it a big success.

2. Case Study of "Process & Mechanism of VLCi"

In order to facilitate the small & medium enterprises (SMEs) enhance productivity, the Confederation of Indian Industries (CII) in collaboration with Japan International Cooperative Agency (JICA) & by leadership of Anand Group of Industries launched a special programme called Visionary Laghu-udyog Mitra Mandal (VLMi), which would see the CII and Nutan Maharashtra Institute of Engg & Tech (NMIET) collaborating in training sector.

The VLMi programme would see the faculty of NMIET being trained, who in turn, would train the batch of SMEs in the area & college students.

Objectives of the Practice

The principle objective of VLMi is on Make in India for Indian manufacturing industries, so this ambitious drive to succeed, the base of Indian manufacturing viz. MSMEs has to be strengthened. VLMi is looking forward to make this happen in the involvement of educational institutes with manufacturing transformation journey. The NMIET College would be offering the subject as an open elective for its engineering students.

File Description	Document
Link for Additional Information	View Document

5. CONCLUSION

Additional Information :

Institute is central Located near Rajiv Gandhi Infotech Park, Hinjewadi and IT park Talawade, which brings significant advantage to the exposure to the student. Institute is having large sector surrounded by the agriculture land and food industry.

Institute is based in Talegaon Dabhade within 20 Km of Pune City which has been included in Smart Cities initiatives in Maharashtra State. Institute creates an innovation ecosystem to sustain the smart city initiative by creating entrepreneurs in the field of science as well as agriculture sector to promote and create entrepreneurs for business, who will serve the society by and large.

Institute has access to railway station within 1 km and on the way to Mumbai – Bangluru express way as well as international airport nearby Mumbai at 100 km and have domestic airport at 40 km in Lohgaon. NMIET has campus spread across 50 acres of land in the vicinity of 7 very big MIDC within 5 to 15 Km having more than 1000 MNCs and 3000 SMEs which has the potential to transform latest technology and research into start-ups.

NMIET has an advantage of proximity of India's first big automotive hub in Pune city which can fulfill the demand and supply of these business set ups effectively and efficiently.

Concluding Remarks :

The faculty strives hard to impart knowledge to the students in order to enhance their competency. The institute has state of the art laboratories which are upgraded in tune with the updation of syllabus by SPPU, Pune. The institute fosters students research mindset and character building for a bright future so as to emerge as tomorrow's nation builders. The students are exposed to modern instruments and test facilities with well-equipped learning resources. The institute also believes in developing research culture in departments and supports innovative ideas from faculty and students. The extensive students training programs and industrial visits are conducted in association with industries to enhance the skills set and employability. Conduction of technical exhibitions and participation in various competitions are helpful to students in bridging the gap between industry and academia. Institute believes that it is contributing to engineering education, applying for NAAC is next stepping stone to ensure quality in engineering education. Furthermore, institute is willing to assess its educational system and academic culture. In addition to it, it is essential for professional institute to receive stakeholder's perception towards teaching-learning process and supporting entities. Thus applying for NAAC is a step towards self introspection leading to further development of the institute towards excellence.