



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY

**VYASAPURI, BANDLAGUDA, KESHAVGIRI(POST), HYDERABAD - 500005,
TELANGANA STATE. INDIA.**

500005

www.mist.ac.in

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NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Mahaveer Institute of Science and Technology (MIST) is located 20kms away from the center of twin cities (Hyderabad and Secundrabad) and affiliated to JNTUH. The institute offers 8 B.Tech programmes, 3M.Tech programmes, MBA programme and 5 Diploma Programmes. All the facilities are well established in an area of 7 acres 19Guntas (7.19 acres). Its built –up area is of 40290 square meters and spread over 2 buildings named as Mokshagundam Vishveshwarayya block and Aryabhata block. A barrier free passage for physically challenged persons is provided with the help of lifts and alternative arrangements.

As an Institute committed to quality education, aims at providing learning with a technology-edge. It endeavors to provide consistent training to its students to help them evolve as competent professionals in the highly competitive world. Right from its inception in 2001, it has been tuning itself to meet this objective.

Success now days, requires not only the ability to perform according to the requirements of the position, but also the ability to adjust and get along as a member of a working team. Two critical aspects of preparation for success in the workplace are Education and Training, so that you will have the required knowledge, skills and a high level of self-motivation including initiative and responsibility.

In the light of the above, the institute is submitting its SSR to NAAC for accreditation.

Vision

“To be a Centre of excellence in technical education with research orientation and to develop human resources to serve the society and nation building”.

Mission

“To provide comprehensive technical education programs in various disciplines and to contribute effectively to the profession and the society. Establishing Center of Excellence in- inter disciplinary areas which are important and relevant to Industry and Employment with scope for research. To inculcate human values and ethical practices to the graduates through co- curricular and extra-curricular activities”.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Wide range of programs offered in line with the mission of the institution.
- Add-on/bridge courses, seminars, conferences in latest areas of engineering and technology are supplemented in curriculum.
- Well – planned methodology in teaching and continuous evaluation of students.
- Academic progression for the students through mini projects, tutorials, practical based learning, and

courses on life skills besides remedial classes for slow learners.

- Faculty recruitment and ratification through expert selection committees.
- Institution encourages the faculty to participate in national and international seminars/symposia/conferences.
- Organizing Faculty Development Programs, encourage faculty to upgrade their skills.
- Internet facility is available with bandwidth of 600MBPS for the use of academic, administrative units and Hostels.
- Proactive management with transparency and decentralization of academic administration.
- Strong learning resources
- Institution placed most of the students in various public and private sector organisations through the placement cell.
- MOUs with Industries
- Ragging-free campus
- Guiding students for competitive examinations namely GATE, UPSC, GMAT, GRE. Etc by career guidance cell.
- Well-equipped technical laboratories, well stocked library with a good number of National and International Journals
- Motivational incentives for students and faculty members.

Institutional Weakness

- Most of the students are from rural areas.
- Industry –Institution tie-ups for development of incubation centre is to be improved.
- Collaboration of MOU's with foreign Universities is in initial stage

Institutional Opportunity

- Remediation of academically weak students.
- Upgrading the computing and internet facilities to facilitate e-learning, ICT enabled Teaching-learning process, research and consultancy.
- Library services should be extended to Research Centers, Departments & Hostels.
- Conducting awareness & orientation programs for students on the skills of entrepreneur ship.
- Preparing the students as per industry requirements.
- Active Alumni Association.
- Promoting the faculty members towards research.
- Education at an affordable cost

Institutional Challenge

- Institution should Strengthen the interaction between Industry & Institute.
- Encouraging students for competitive examinations and higher studies.

- Networking and strengthening relationship with stakeholders.
- MOU's with Foreign Universities.
- To enhance Industry Institute Interaction.
- To reduce the drop-out rate.
- To sustain the competition from other colleges.
- Motivation of students towards higher learning.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Mahaveer Institute of Science and Technology (MIST) is an affiliated college that adheres to the Jawaharlal Nehru Technological University Hyderabad (JNTUH) curriculum. The Institute delivers its curriculum through the Department Calendar, prepared by the Institute Calendar, followed by the university's Academic Calendar. The Institute also caters for the needs of the students regarding add-on programs, value-added Courses and Certificate courses to bridge the gap between curriculum and the industry needs.

The Institute's Vision and Mission statements and PEOs, POs, PSOs, and COs are displayed in strategic locations to ensure that stakeholders are reached. The Institute has developed a strategic plan for curriculum implementation that emphasizes ICT-based delivery. Additionally, the activity encompasses co-curricular, extra-curricular, and curricular activities. Each faculty member is responsible for the course contents, course outcomes, and identification of curriculum gaps, all of which are based on predefined POs and COs and are consistent with the Institute's Vision and Mission. Academic flexibility is provided to students through the availability of a variety of elective courses. Each year, students participate in Field Projects and Internships in their final year.

Faculty members are encouraged to participate in Faculty Development Programs, Seminars, and Workshops offered by prestigious institutions. The Institution invites experts from established organizations to conduct various skill development Programmes for students and faculty. All stakeholders, including students, parents, alumni, and employers, provide feedback on academic performance and syllabus completion.

At the start of each semester, faculty members are instructed to create a course file and make it available to students. The course file contains the course objectives, syllabus, and a detailed schedule of the semester's topics. Apart from that, the Training and Placement Department encourages and supports students through internships and industry-related Programmes.

Teaching-learning and Evaluation

A critical aspect of this Institute's teaching-learning process is its teachers' ability to instill enthusiasm, ignite passion, and pique students' curiosity. A student-centered approach is employed throughout the teaching-learning process to enhance the learning experience.

MIST adopts and strictly adheres to all JNTUH admissions policies when enrolling students in the sanctioned seats. Students from the reservation category are admitted to the institution following the State Government's regulations. Additionally, MIST hosts an Orientation Program to familiarize students with the fundamentals of all subjects in the first-year UG program. MIST is particularly interested in identifying fast, slow learners and

developing specialized Programmes to help them improve their academic abilities. Advanced learners can choose from a variety of Programmes. Slow learners attend remedial classes, and their performance in each subject is continuously monitored. MIST adheres to AICTE's student-faculty ratio guidelines.

MIST incorporates experiential, participatory, and problem-solving methods to enhance students' teaching-learning experiences. Classrooms are equipped with ICT facilities to facilitate more effective and efficient teaching and training.

Mentors are assigned to each group of 20 students to keep track of their attendance, punctuality, discipline, and academic performance and guide them through their career paths. Students are free to contact their mentors about any academic or non-academic issues.

MIST constantly develops new teaching methods, learning procedures, and evaluation procedures. The teaching schedule is meticulously planned following the University's Calendar of Events. Flexibility is built into the planning to develop and implement custom-made learning methodologies to enhance learning at different paces for different students (collaborative, individual, experiential, problem solving). The student-faculty ratio is optimal for a student-centered learning environment. The Institute ensures that Faculty Members are sufficiently qualified and experienced in their respective fields.

Direct and indirect methodologies have been developed to evaluate the program and course outcomes. The teaching-learning process is constantly improved based on students' results and satisfaction

Research, Innovations and Extension

This criterion seeks information on the institution's policies, practices, and outcomes, with a focus on research, innovation, and extension. It discusses the facilities available in the institution's and efforts to establish a "research culture." In the campus. The institution is responsible for enabling faculty to conduct research projects that benefit society.

It also comprises the institution's responsiveness and administrative support in leveraging the services and resources available at government and/or other agencies. For conducting research, the campus provides the necessary infrastructure in terms of space, equipment, and support services. For the purpose of sharing research facilities and conducting joint research, the institution collaborates with various agencies, institutions, and research groups.

Faculty can submit project proposals and approach funding agencies to mobilize resources for research with the help of the institution's financial, intellectual, and human resources, it must provide institutional support to its faculty for submitting research projects and gaining external financing through flexibility in the funding processes, infrastructure, and academic support.

The institution has established an innovation ecosystem, which includes an incubation centre and other efforts for knowledge development and transfer. Workshops and seminars on Intellectual Property Rights (IPR) and Industry-Academia Innovative Practices are held by the college at regularly basis to gain knowledge on various important aspects.

The institution encourages the faculty to publish their research work done in various fields and encourage awards for best journal paper given by respective departmental faculty for their work.

The institution also encourages giving patent preference to their work done. This enhances quality of teaching and learning in the institution.

Extension Activities is a type of education that focuses on community service. Focusing on learning activities increases sensitivity to community issues, gender inequities, social unfairness, and instilling values and dedication to society motivates and guides students. This institution conducts yearly varied number of extension activity programs to develop students as all-rounder in all aspects.

Collaboration with academic institutions, industry, or other professional and social agencies can be explored. Training, student exchange, faculty exchange, research, and resource sharing are carried out in the institution. It is vital to have a written agreement or understanding between the institutions in order for collaborative efforts to be effective between college and third party to enhance training experience.

Infrastructure and Learning Resources

The development and augmentation of infrastructure is an ongoing process keeping in view the needs for up gradation and addition in consonance with the changes and needs of the system. Modern gadgets and infrastructure peripheral has been added and laboratories/blocks are made available as per requirements. Class rooms equipped with LCD Projectors, Computer Labs, Seminar Halls, Auditorium, Library, Canteen, and waiting room for girls, recreational spaces, safe drinking water, fire extinguisher and solar power plant facilities etc ...are available.

The Library is divided into sections: - Reference Hall, Stack Halls, Digital Library, Reading Hall, Departmental Library, Periodical cum e-resources. The library services are fully digitized as the routine work of Issue and Return of books is being done online with the help of appropriate software. Online Public Access Catalogue (OPAC) terminals are available in the library. Also the students and faculty can access the Internet facilities provided in the library at any time between 9:30 am to 4:30 p.m. The library has remote access to e-publications through J-GATE & DELNET.

Institution has NSS unit with around 300 participants to orient the student youth to community service leadership qualities, democratic attitudes and to meet emergencies and natural disasters. The hostels are having hygienic dining halls, power backup, laundry and recreational facilities like gymnasium, yoga center along with sports facilities like cricket, foot ball, volleyball, table Tennis, badminton etc. Computer facility including access to internet with wifi are also available 24x7 for the hostel inmates. . The Data Centre monitors the CWN facility or ubiquitous network connectivity throughout the campus (internet -50 MBPS). The Institute provides medical facilities such as regular visit of Doctor and staff nurse, facilities for medical emergencies like ambulance.

The institute has spacious ICT enabled classrooms, seminar halls and department wise staff rooms. Computer department has labs that are well-designed and adequately equipped with learning resources. The Canteen Committee makes monthly visits to the Canteen, keeping regular checks on the infrastructure, and conducting hygiene checks in the kitchen and related areas to ensure a qualitatively satisfactory food experience for the students.

Student Support and Progression

This criterion focuses on ensuring proper student participation in academics and student support for the institution. Mentoring and guiding students in various areas of education and study is necessary. Aiding and guiding students in their education improves education.

To meet these criteria, the institution must follow:

- Student mentoring and support,
- Student progression,
- Student participation and activities.

It has always been a student-centric institution. This year's theme was "Student Mentoring." From admission to graduation, students are mentored at various levels. Teacher mentorship is assigned to every class.

All departments have associations where students can meet eminent academics and scientists. Students can use the Central and Departmental libraries for research and browse the internet. The scholarship section details various financial aid programmes. The Career Guidance Cell helps all students by providing information about financial aid and preparing them for GATE, NET, SLET, GRE, and civil service exams. Organizes campus recruitment. There are also in-house language laboratories, a placement cell, alumni associations, and a canteen.

Girls can complain to the Women Grievance Cell (which also handles sexual harassment cases). Professional counsellors are available to students in need. Students have access to medical facilities. The Physical Education Department's indoor stadium has a gymnasium for sports and games. Students take part in NSS extension activities.

Governance, Leadership and Management

Mahaveer Institute of Science & Technology has a transparent governance system. The Governance of the Institution is strictly in accordance with the Vision and Mission of the Institution. The major decisions which have a bearing on the functions and the goals of the institute are done by the Governing Body. The management and Principal actively participate in Governing body for ensuring that the policies and action plans are aligned for attaining the mission of the institute. Under the headship of Principal, HODs' will formulate and execute the policies and decisions with the assistance of Teaching & Non Teaching Staff. Before the commencement of each academic year various college committees are formed by IQAC under the guidance of the Principal. The participative approach can be seen in the extensive delegation of authority to the Heads of the various departments, teaching, non- teaching and administrative staff members in the college. The institute organizes various development programmes for faculty and students.

It also implements various welfare schemes for its staff like granting special (OD) leaves for Ph.D related research study, financial assistance for membership registration in professional bodies, casual leaves and many others. The institute motivates them to participate in workshops, conferences, FDPs etc for their continuous development by providing necessary financial assistance if required. Staff members are encouraged to carry out a self-appraisal every year so as to gain insight into the effectiveness of their teaching style and its impact on students. The institute also collects feedbacks from students to follow performance appraisal procedures. The Institute conducts various internal and external financial audits regularly to maintain the smooth flow of activities. IQAC monitor the quality of the teaching-learning process, evaluation system, academic performance, faculty recruitment and training/qualification enhancement, while the management facilitates smooth functioning of teaching and support systems. It works in a participative manner and conducts regular

meetings to review the teaching-learning processes, structure and methodologies of operations and learning outcomes at periodic intervals.

Institutional Values and Best Practices

MIST gives highest priority on ascertaining the safety and security of the female students, faculty and other employees. It also provides facilities like common room and counseling services, Security Guards at the main gate allows the persons only if they have proper ID proof and reason, committees like Anti-ragging committee, Grievance Redressal Committee and Anti sexual harassment committee are constituted and as per the guidelines and there have been functioning actively. CCTV Cameras are installed at different locations to ensure the safety and security.

Institution has alternate sources of energy such as solar plant and biogas plant. Energy conservation measures are taken by extensive use of LED bulbs in class rooms, laboratories and seminar halls, also sensor based energy conservation system is connected to street lights.

The institute has an MOU with Urban Rebox IT Pvt Ltd which is a authorized franchisee of ITC for effective waste management (recycle, up cycle of e-waste, plastic and paper waste).

MIST has effectively taken up water conservation facilities by constructing a number of rain water harvesting pits in the campus..Overhead Storage tanks with large capacity are constructed and RO system is installed to ensure pure water to the faculty and students. Waste water from RO system is used for watering the plants.

Institute has employed certified auditing agencies for Green audit, Energy audit and Environment audit regularly. NSS unit of MIST have taken up a number of green initiatives campus and beyond campus environmental promotion activities such as Swatch Bharath, Swatch Sarvekshan, Tree plantation, anti plastic awareness programme, flood relief camps etc. In recognition of these initiatives and programmes, Institute has received a number of clean and green campus recognitions and awards.

MIST believes in discharging its social responsibilities towards the society and constitutional obligations through sensitizing the students and faculty by organizing the various philanthropic activities Swatch Bharat Programs, blood donation camps, flood relief camps, plantation of trees, anti plastic awareness programme etc

MIST gives at most importance in maintaining noise free, pollution free and serene atmosphere by restricting the entry of automobiles, use of bicycles and battery operated vehicles, strictly prohibiting the use of plastic in the campus, planting various trees and landscaping the gardens.

MIST puts a lot of efforts and takes initiatives in providing an inclusive environment by organizing programmes for promoting tolerance and harmony towards cultural, regional, linguistic, communal and socio economic and other diversities.

The institution has a prescribed code of conduct for students, teachers and administrators. Adherence to the code of conduct is ensured by monitoring committee and by organizing professional ethics programmes and annual awareness programmes on code of conduct.

The institution ensures disabled friendly, barrier free environment by providing disabled friendly wash rooms, display boards, sign posts, adobe screen reading software, lifts and ramps, Daisy player for blind

students, mechanized wheel chair and human assistance and reader.

MIST pays attention on holistic development of students by implementing best practices through effective mentoring system, add on courses, extra curricular activities, student focused teaching. This consistent participation of MISTIANS in various academic and non-academic events and their evidences of success demonstrate distinctiveness of the Institution.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY
Address	Vyasapuri, Bandlaguda, Keshavgiri(Post), Hyderabad - 500005, Telangana State. India.
City	HYDERABAD
State	Telangana
Pin	500005
Website	www.mist.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	B.v. Sanker Ram	091-9642703342	8978380692	040-24455003	principal.mahaveer@gmail.com
IQAC / CIQA coordinator	J Malla Reddy	091-7989520182	9652216001	040-24455003	mist.iqac@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	30-08-2001

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

State	University name	Document
Telangana	Jawaharlal Nehru Technological University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	07-03-2022	View Document
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	25-06-2021	12	nil

Details of autonomy

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

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

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Vyasapuri, Bandlaguda, Keshavgiri(Post), Hyderabad - 500005, Telangana State. India.	Urban	7.19	40290

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	BTech,Cse	48	INTERMEDIATE	English	120	105
UG	BTech,Ece	48	INTERMEDIATE	English	120	35
UG	BTech,Eee	48	INTERMEDIATE	English	60	16
UG	BTech,It	48	INTERMEDIATE	English	60	24
UG	BTech,Mech	48	INTERMEDIATE	English	60	11
UG	BTech,Civil	48	INTERMEDIATE	English	60	15
UG	BTech,Aero	48	INTERMEDIATE	English	60	25
UG	BTech,Csm	48	INTERMEDIATE	English	60	31
PG	Mtech,Cse	24	B.TECH	English	18	3
PG	Mtech,Eee	24	B.TECH	English	18	2
PG	Mtech,Mech	24	B.TECH	English	18	8
PG	MBA,Mba	24	B.SC B.COM B.TECH	English	60	15

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	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	32				42				128			
Recruited	25	7	0	32	31	11	0	42	66	62	0	128
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				9
Recruited	6	3	0	9
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				29
Recruited	24	5	0	29
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	23	6	0	0	0	0	0	0	0	29
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	2	1	0	31	11	0	56	53	0	154

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

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	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	927	18	0	0	945
	Female	336	3	0	0	339
	Others	0	0	0	0	0
PG	Male	55	2	0	0	57
	Female	30	1	0	0	31
	Others	0	0	0	0	0
Diploma	Male	0	0	0	0	0
	Female	0	0	0	0	0
	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	35	41	33	23
	Female	14	15	19	7
	Others	0	0	0	0
ST	Male	23	25	27	18
	Female	8	8	6	2
	Others	0	0	0	0
OBC	Male	132	154	173	170
	Female	53	58	56	56
	Others	0	0	0	0
General	Male	74	60	94	84
	Female	29	28	33	37
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		368	389	441	397

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	<p>The National Education Policy-2020 envisions a nation-centric education system that provides high-quality education to all citizens. In this regard, Mahaveer Institute of Science and Technology (MIST) will aim to broaden the knowledge landscape in accordance with the National Education Policy-2020. Many unskilled jobs may be automated because of scientific and technological advances such as big data, machine learning, and artificial intelligence, increasing the demand for skilled workers with multidisciplinary skills in the sciences, social sciences, and humanities. MIST will examine this outlook and landscape of knowledge, and minor credits in such subjects/courses will work with</p>
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	<p>renowned institutions. As India develops and becomes one of the world's sixth-largest economies, demand for humanities and arts will grow. MIST will lead efforts to find a multidisciplinary knowledge landscape. The Institution embraces the National Education Policy's vision of providing high-quality education to develop global citizens. The faculty members discussed NEP key principles like curriculum diversity, pedagogy innovation, encouraging logical decision making and innovation, critical thinking, and creativity. Considering the NEP, the Institution has established new interdisciplinary centers involving various departments. All academic programs now include multidisciplinary/interdisciplinary electives. All programs are designed to allow students to choose electives from other departments. The Institution is actively implementing the NEP's recommendations.</p>
2. Academic bank of credits (ABC):	<p>The Academic Bank of Credits will allow students to choose their entry and exit points in higher education and create their own degree. Rather than taking the rigid, regularly prescribed degree/courses of a single university/autonomous college, this system allows students to tailor their degrees.</p>
3. Skill development:	<p>Our Engineering & MBA programs are designed to mould future professionals fully conversant with modern engineering and management practices, aligned with the Government of India's National Skills Qualification Framework (NSQF) and industry requirements. As per UGC, Aspirants to the Engineering and Management programs will be fully trained in accordance with NSQF's National Occupational Standards (NOS) developed by Sector Skills Councils (SSC) and industry requirements, enhancing our graduates' employability. All these steps lead to the actual implementation of NEP. The programme structure and content align with the National Skill Qualification Framework (NSQF). The programme provides students with multiple entry and exit points, each linked to a specific NSQF job role. Students who complete the first year will be eligible for higher education. MIST has encouraged students to enroll in TASK, NPTEL, AICTE, and NSS activities to foster entrepreneurship and professional excellence.</p>
4. Appropriate integration of Indian Knowledge	<p>According to Noam Chomsky, a language is more</p>

<p>system (teaching in Indian Language, culture, using online course):</p>	<p>than just words. A culture, a tradition, the unification of a community, and an entire history all contribute to the formation of what a community is. Everything is encapsulated in a language." Individuals' cultural identities are strengthened, awareness is increased, cognitive and creative abilities are enhanced, and individual happiness is increased through the arts. The NEP refers to the 64 Kalas mentioned in Vanbhatt's Kadambini in order to emphasize India's illustrious artistic heritage. We offer a variety of programs, including webinars and seminars, to encourage learners and increase their understanding of the cultural values reflected in literary works written in a variety of languages. Additionally, the Indian Ethos and Professional Ethics courses in the Engineering and Business Administration curricula teach cultural values rooted in Indian tradition, ensuring that engineering and business students develop a value orientation while working in industry.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>New understandings and knowledge bases are rapidly emerging in today's world. In addition to engineering, MIST offers programs in environmental studies, humanities and sciences, science and technology, and MBA. These programs are all outcomes-based education (OBE) designed to meet regional and global needs. Program outcomes, programme specific outcomes, and course outcomes are clearly stated at MIST. All courses are designed to help students remember, understand, apply, analyze, evaluate, and create. MIST has focused on OBE well. Aside from domain-specific skills, students should develop social responsibility, ethics, and entrepreneurial skills to contribute to the nation's economic, environmental, and social well-being. To apply the spirit of NEP, all courses have been designed with macro-economic and social needs in mind. Rapid adaptation and sensitive response to contemporary challenges</p>
<p>6. Distance education/online education:</p>	<p>As a result of the Covid -19 pandemic, educational institutions across the nation are increasingly utilizing digital platforms for interactive classes and meetings. Leaving aside the negative consequences of a lack of face-to-face learning, online education has broken down geographical barriers, allowing experts and students from disparate geographies to interact. The institution promotes a system that empowers faculty with autonomy over curriculum</p>

design, pedagogy, and assessment strategies, and empowers faculty to use innovative pedagogical approaches to enable them to perform creatively. In addition, it acknowledges the faculty's adoption of innovative and engaging teaching strategies and tools. This is consistent with the new approach envisioned in the New Education Policy. Access to online resources for educators and students will no longer be limited as a result of the knowledge gained during Covid-19's closure period. Academic Flexibility refers to the provision of innovative and interchangeable curricular structures that enable the creative combination of Courses/Programs in Disciplines of Study leading to a Degree/Diploma/PG Diploma/Certificate of Study with multiple entry and exit points in accordance with the National Education Policy-2020, while removing rigid curricular boundaries and creating new opportunities for life-long learning.

Extended Profile

1 Program

1.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
472	461	453	462	455
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
12	9	11	7	8

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1489	1434	1453	1568	1784
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
259	263	263	263	359

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2020-21	2019-20	2018-19	2017-18	2016-17
392	378	399	423	486
File Description	Document			
Institutional data in prescribed format	View Document			

3 Teachers

3.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
202	195	228	246	287
File Description	Document			
Institutional data in prescribed format	View Document			

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
202	195	228	246	287
File Description	Document			
Institutional data in prescribed format	View Document			

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 52**4.2****Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)**

2020-21	2019-20	2018-19	2017-18	2016-17
18601652	28384352	11164189	33234745	37853435

4.3**Number of Computers****Response: 733**

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:

Being an affiliated institution, MAHAVEER INSTITUTE OF SCIENCE & TECHNOLOGY (MIST) adopts the curriculum designed by Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad.

For effective delivery of the curriculum, the following process is developed and deployed. At the outset, Academic calendar provided by the University is taken as the base for making curriculum delivery plan. The academic calendar provides the date of commencement of the academic session, the duration of the semester, the period of internal assessment tests, practical exam schedule, preparation holidays, final semester examinations etc. The University also declares the list of general and optional holidays to affiliated colleges.

The Head of the institution conducts meetings with the Head of the departments for developing a detailed academic calendar for the effective implementation of the curriculum immediately after the release of academic calendar of JNTUH.

A well-structured academic calendar which is in-line with the academic calendar of JNTUH is prepared by the Head of the departments with the due approval of the head of the institution. An action plan for conducting co-curricular, extra-curricular activities, to enrich the curriculum will also be included in the detailed academic calendar.

The Head of the Department allocates the courses to the faculty members as per their expertise and options made by them. Class wise and Course wise time tables will be prepared for effective planning and delivery of courses.

Each faculty prepares course outcome, a micro level course plan, course notes and course handout, for executing day to day academic activities and the same is circulated to the students on the day of commencement of Instruction. A clear plan to fill up the Curricular Gaps either by teaching content beyond the syllabus, invited lectures, workshops or add-on programs are included in the course plan.

Teachers are encouraged to impart the curriculum through student centric learning methods, such as presentations, assignments, peer learning, brainstorming, NPTEL lectures, group discussions, workshops, quiz, role-play, seminars, projects, industrial visits, and innovative teaching methods etc., besides the regular/traditional chalk and talk methods.

The Head of the Department monitors the academic activities on a regular basis by verifying syllabus

coverage report to ensure the execution of effective teaching learning process as per the academic calendar, and finds the gap, if any, and correspondingly necessary measures are taken. The IQAC performs academic audit twice in a semester to ensure the effective delivery of the curriculum.

The academic performance of students is continuously and meticulously monitored by conducting special tests, Mid Term exams during the semester to assess the attainment of Course Outcomes (COs). As the attainment of COs is the base for achieving the attainment of Program Outcomes, Program Specific outcome and by which Vision and Mission of the institution. The institution takes all the possible measures to ensure the effective delivery of curriculum and attainment of COs for all the courses.

Class committee meetings are conducted at regular intervals to ensure the effective delivery of the curriculum.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

In the opening of the academic year, Academic Calendar is published by the University for Respective Course. The Institution ensures effective time management and strictly follows timeliness given by the affiliating university. The Institute carries out effective planning to stick to the Academic Calendar. This allows the teachers and the students to space out their teaching and learning and regular assessment of the same.

CIE for Theory Courses

For theory courses, CIE is conducted for 25 marks with three components, such as Descriptive, Objective and Assignments. The Descriptive Component is marked out of 10 marks. The Objective Component is marked out of 10 marks. The Assignment is marked out of 5 marks. These tests are conducted in evenly spaced out intervals as scheduled in the academic calendar of JNTUH for the convenience and effective preparation of the students

CIE for LAB Courses

For Lab courses, CIE is conducted with two components for 25 marks, such as performance in Internal Practical Examinations and day-to-day performance in the regular laboratory sessions. Marks for each experiment are marked in the lab register based on their attendance, observation and performance. The independent learning level of the students and a practical approach to the real time applications are tested by viva voce of laboratory courses.

Following the university calendar, every Department creates Internal Calendars to ensure timely delivery of syllabus. Every teacher follows a strict agenda that is discussed and approved by the Head of their respective Department. This is followed by deducing a day-to-day division of topics and chapters. These topics and chapters are chosen keeping the upcoming CIE in mind. The timeline created allows for the students to complete the given syllabus in enough time. The students are given plenty of time before the examinations as well to prepare and practice their concepts

In case of any required change, the university communicates the modification to the college and the college enforces the same. In any condition, the academic calendar is followed and respected by teachers of all departments.

File Description	Document
Upload Additional information	View Document
Link for Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 12

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 83

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
19	15	17	15	17

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document
Link for Additional information	View Document

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

Response: 51.49

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

2020-21	2019-20	2018-19	2017-18	2016-17
838	750	815	737	817

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

1.3 Curriculum Enrichment

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

Response:

The institution strongly believes that addressing crosscutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics have a direct impact on achieving the sustainable development of the nation. The curriculum designed by the university in itself, has included many of the aspects such as the courses namely Gender sensitization, Human values and professional Ethics, Social Ethics and Values, Environmental Studies, Constitution of India, Intellectual Property rights etc.

Gender Sensitization, the modification of behavior by raising awareness of gender equality concerns i.e., “the awareness informed propensity to behave in a manner which is sensitive to gender justice and gender equality issues”. To enrich the curriculum, MIST organizes various awareness programs and events about Human values, Ethics, Environment, and Gender awareness. The institute provides equal opportunities to boys and girls in all types of student activities organized. The college supports women faculty and students to become members in different forums and encourages them to participate in events towards achieving Women's Empowerment and to promote leadership qualities.

Human Values and Professional ethics: Ethics are fundamental standards of conduct by which we work as professionals. Values are individual in nature and are comprised of personal concepts of responsibility, entitlement and respect. The institution focuses on human values and discusses engineering ethics, explains safety and risk factors, responsibilities and rights of engineers and addresses global issues, computer, and environmental ethics through the courses offered in the university curriculum. Apart from the curriculum given by university, MIST organizes several programs to the students in developing the values and ethics among the students. MIST is in touch with Rama Krishna Mission, Hyderabad and conducts several events and programs throughout the year like National Youth Day, International Yoga Day etc., expert's talks are delivered during these days and students are encouraged to participate in these programs.

Environmental Sciences: The growing global population and increasing economic production have put a strain on the world's finite resources damaging ecological environment. MIST encourages the students to learn about climate-friendly technologies like Non-Conventional Energy Systems, Solid Waste Management Techniques etc., and students are guided to apply these concepts in their course work like intern ship, Project work etc.

MIST has strong NSS wing, through this several activities like Blood Donation camps, Flood relief programs, Swatch Baharat, Haritha Haram (to rejuvenate degraded forests), contribution to the Old Age and Orphanage homes, etc.. Students will be participating in all these activities voluntarily, thereby they will be learning the responsibility towards the society

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 76.4

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
371	353	347	363	326

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 29.15

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 434

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2) Teachers 3) Employers 4) Alumni

Response: A. All of the above

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

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

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

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 52.05

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
368	389	441	397	482

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
741	750	750	750	1026

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

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 88.11

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

2020-21	2019-20	2018-19	2017-18	2016-17
217	238	256	237	283

File Description	Document
Average percentage of seats filled against seats reserved	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 and organises special Programmes for advanced learners and slow learners

Response:

Every year, the college hosts an orientation programme for parents and students. This programme would introduce students and parents to the institution, its facilities, and its rules. Before starting classes, students' unique needs are identified and strategically addressed.

Each year, students receive training in various life skills, including communication, personality development, time management, and motivation. Special classes will be held to teach the fundamentals of mathematics and engineering.

Sorting of students

According to their performance in-class activities, test scores, assignment submission consistency, and attendance, students are classified as advanced or slow learners to receive differentiated attention.

To provide a shared learning platform, the institution assesses students' learning levels based on their performance in Intermediate/+2 and EAMCET, a state-run entrance examination for first engineering programmes.

Workshops are held to motivate both slow and fast learners. Both groups of students benefit from advanced learners serving as coordinators. Students benefit from guest lectures and seminars.

Special activities for Advanced Learners:

1. Assisting students with career planning.
2. Discussion or seminar on a complex subject
3. Organizing a variety of programs for acquiring advanced technical knowledge.
4. Encourage participation in various symposiums such as quizzes, poster presentations, conferences, and inter-institutional competitions.

Initiatives to improve the performance of the weak students

Academically slow learners are those who are unable to keep up with classroom instruction and require additional attention to bring them up to speed with the rest of the class.

1. Remedial/Extra classes are focused on the subject/topic codes in which students are identified as slow learners.
2. After analyzing previous question papers and re-explaining any necessary points, notes on significant topics were provided.
3. The concerned subject teacher provides individual academic counselling.
4. Student assistance desk.
5. Peer-to-peer learning groups are formed among students.

6. Mentoring and motivational classes help students resolve issues and keep attending classes.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 7:1

File Description	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:

Our college's primary goal is to teach and learn. The right mix of traditional and modern methods makes learning fun and rewarding. Experiential, participatory, and problem-solving learning methods are used to ensure holistic student development and promote life-long learning and knowledge management.

EXPERIENTIAL LEARNING:

1. Practical courses (laboratory), including virtual labs
2. Technical expertise in repairing and maintaining lab equipment.
3. Less formal and more informal learning methods (i.e., Problem-based, case-based, project-based, inquiry-based, computation-based, co-operative, work- or community-based) are used whenever possible.
4. Students are encouraged to undertake innovative projects.

Conducting investigations for solving complex problems:

Use research-based knowledge and methods such as experiment design, data analysis, and interpretation to reach valid conclusions.

Students understand their flaws and how to improve in future endeavours through studio performances.

These sessions assist in the alleviation of anxiety and negative emotions.

PARTICIPATORY LEARNING:

Design/development of solutions:

Through group analysis, brainstorming, and other methods, students try to solve complex engineering problems and design system components/processes that meet real-world needs.

Mind Maps for creativity:

Teachers create a central Mind Map node and allow students to expand and develop new ideas. For some topics, flipped classes, blended learning, and model-making methods are introduced.

Students are now required to take MOOCs offered by the country's top universities. Online lectures, demonstrations, and Skype sessions are examples. Advanced software like Aspen, CAD, etc., are encouraged. Within the constraints of time and resources, final year students investigate 40-50 different problems.

Industry interaction and summer training

Industrial/ field visits, Practical training/ internship at Industry and/or renowned institutions like TCS, Infosys, ONGC, IISc etc., are currently mandatory.

Industry projects and collaborations are under taken to enrich students with pre-employment training.

Periodical guest lectures on topics relevant to employment skills by personnel from respective organizations/ industries.

PROBLEM-SOLVING METHODS:

Giving assignments and quizzes at the end of instruction of each unit. Case Study Analysis and Discussion.

Product Design and development.

All academic activities are aimed at elevating the students 'knowledge skills and building confidence in them

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

Information Communication Technologies (ICT) is vital in all aspects of human life. Using ICT in the classroom allows students to learn and apply 21st-century skills. ICT improves the teaching and learning process and helps teachers present their material to students of all ages. The internet and interactive multimedia are important ICTs for future education. They must be effectively integrated into formal education, especially in teacher education.

The Institute's ICT tools include ICT Tools:

1. **Projectors**- Projectors are available in different classrooms /labs
2. **Desktop**- Arranged at Computer Lab all over the campus.
3. **Printers** are installed at Labs, HOD Cabins, Exam branches, and at all prominent places.
4. **Photocopier machines**-.The campus has Photostat machines.
5. **Scanners**- Multi function printers are available in all major areas.
6. **Seminar Rooms**- Seminar halls are equipped with all digital facilities.
7. **The auditorium** is digitally equipped with a mike, projector, cameras and computer system.
8. **Online Classes** through Zoom, Google Meet, Microsoft Team, Google Class room
9. **Hacker Rank** (Online Coding Platform)-inter-college competition
10. **MOOC Platform** (NPTEL,SWAYAM)
11. **Digital Library** resources (DELNET.)

Use of ICT By Faculty-

PowerPoint presentations-

Using LCDs and projectors to teach with PowerPoint is encouraged. They have a digital library, search engines, and websites to prepare presentations.

Industry Connect-

The seminar and conference rooms are digitally equipped for student guest lectures, expert talks, and competitions.

Online quiz-

After each unit, teachers create an online quiz for students using GOOGLE FORMS.

Video Conferencing-

Students were counseled via Zoom/Google Meet applications.

Video lecture-

Students can record video lectures for future reference.

Online competitions

Various technical events and management events such as Poster making, Ad-mad show, Project presentations, Business quizzes, Debates, paper presentations, etc., are being organized with the help of various Information Communication Tools.

Workshops

Teachers use ICT tools like SPSS, programming languages, simulations, etc., to conduct seminars on new methods.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 7:1

2.3.3.1 Number of mentors

Response: 202

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	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: 100

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

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 7.72

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
28	17	14	14	12

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 0.03

2.4.3.1 Total experience of full-time teachers

Response: 5.26

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Continuous Internal Evaluation

(CIE) determines the educational framework's quality. The Institute administers two CIE (Mid-Term Exams) for theory and laboratory courses during each semester.

Examinations Pattern for Continuous evaluation

- Mid-I is based on First two and half unit syllabus.
- The Mid-II Assessment Test covers second two and half unit syllabus
- Two practical internal lab and one External exams conducted per semester..
- Assignment-1 covers the first two and half unit syllabus, while Assignment-2 covers the remaining two and half units.

Sectional Exams are held once at the end of each session, covering the entire syllabus. The university creates and provides online examination question papers.

Conduction of Examination

Mid Assessment Test:

The college administers Mid Assessment Test-I (Mid-I) and Mid Assessment Test-II (Mid-II) following JNUTH guidelines. Students from all branches are mixed to create the seating plan.

Mid Assessment marks

Subjective	Objective	Assignment	Total	
10 marks	10 marks	5 marks	25 marks	

Sessional Examination:

This exam is administered once during the session and follows the University exam pattern. Three sets of question papers are prepared by various faculty members and handed over to the exam branch .

Internal Practical Examination:

Internal Practical Examination is conducted at the end of the session based on the department level's university exam pattern.

Descriptive	Viva-Voce	Record writing	Total	
-------------	-----------	----------------	-------	--

10 marks	10 marks	5 marks	25 marks	
<p>Seminar:</p> <p>Seminars are held for fourth-year undergraduate students. Students are required to present seminars in class on selected and assigned subject-related topics. Students are evaluated on their presentation skills, subject knowledge, communicative ability, and responses to questions.</p> <p>Project-work:</p> <p>Students enrolled in the fourth year of B.Tech. must submit projects based on field research in the subject. Teachers evaluate projects based on the students' work and active participation in the project's completion. The project work accomplished the project report's objectives of enhancing critical thinking, analytical ability, and collaborative learning abilities.</p> <p>Evaluation:</p> <ul style="list-style-type: none"> ◦ Each subject teacher prepares scheme of evaluation before valuation. ◦ The respective subject teachers evaluate the Class Assessment Test within two days of the exam. <p>Lab Practical Examination:</p> <ul style="list-style-type: none"> ◦ The Practical Examination is evaluated using various criteria, including teacher assessment, practical records, viva-voce, and performance. ◦ End-of-semester laboratory practical examinations will be conducted for all branches under the supervision of an external examiner. ◦ An external examiner evaluates answer scripts. The results and grades for the practical are communicated to the university on a timely basis. This practical exam is conducted in strict accordance with university regulations. <p>Results Declaration:</p> <p>The Mid Assessment Tests and Sessional Examination results are announced within a fortnight of the exam's conclusion. The cumulative grades are posted on the departmental bulletin boards and communicated to students and parents. Finally, the exam branch will receive department-by-department mark lists in the prescribed format.</p> <p>Internal Assessment Marks: Internal Assessment Marks are assigned to students for teacher evaluations, assignments, and sessional examinations.</p>				
File Description		Document		
Any additional information		View Document		
Link for additional information		View Document		

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

Response:

MAHAVEER has established a transparent, time-bound, and efficient procedure for resolving internal examination-related grievances. Throughout the semester, various internal examinations are conducted. Several examples include Mid-Test 1&2, assignments, laboratory continuous evaluation, seminars, and project evaluations.

Mid Test-1&2

The test solution and question-by-question marking scheme are available immediately following the Mid-Test from the concerned subject teacher. The concerned faculty will evaluate the answer scripts within seven working days of the test's conclusion.

Within a week, the faculty evaluates the answer sheets. Students are shown the estimated answer sheets in class, and faculty members conduct individual grievances with students on the paper as requested by the student.

At the semester's conclusion, the averages of the unit tests are calculated and verified with the students. If students report inconsistencies, faculty members immediately resolve them.

Following that, grades are posted on the notice board to ensure maximum transparency, and they are communicated to parents via letters.

Finally, assignments are assigned for each course unit, and after evaluation, necessary suggestions are made to help students improve their performance.

Assignments

Faculty members grade assignments using a rubric distributed to students. The rubric includes criteria such as timely submission, clarity, and neatness. The evaluated assignments are returned to students, ensuring the integrity of the assigned grades and resolving student grievances.

Lab experiments-

The faculty immediately evaluates the student's laboratory experiment and assigns performance grades based on the faculty-designed lab rubric. The lab rubric is included in the lab manual, which students receive well in advance of the lab.

Seminars

Evaluation of seminars has three parts:

1) Performance Criteria,

2) Rating Scale

3) Indicators.

Project evaluation-

Twice during the semester, the project is evaluated internally in front of a faculty panel. The rubric for these two presentations includes criteria for the quality of problem formulation, literature analysis, presentation, and teamwork, among others.

Redressal of grievances at institute level:

Departmental Level

Faculty evaluates students continuously through theory lectures, labs, assignments, and Mid-Tests. Midterm grades are assigned using predefined strategies and are posted on the bulletin board. The issue is discussed with class teachers, faculty, and the head of the department.

College Level

The Institute appoints a Senior Supervisor to ensure the smooth administration of JNTU examinations. If students encounter difficulties, they are resolved by the university's Chief Examination Officer. During the administration of online/theory examinations, grievances are considered and discussed with the principal, and the examination section forwards them to the university.

Redressal of grievances at the university level

After being routed through the college examination section, questions about results, corrections to mark sheets, and other university-issued certificates are handled at the JNTU examination section. Students who are dissatisfied with their university evaluation through college may apply for revaluation, recounting, and challenged evaluation by paying the necessary processing fee to the university.

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

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

As part of Outcome-Based Education (OBE), departments develop programme outcomes, programme specific outcomes (PSOs), and course outcomes (COs) in consultation with faculty and stakeholders. After reaching consensus, the document is widely circulated and exposed via various displays or communication.

?Website

?Curriculum/regulations books

?Classrooms

?Departmental Notice Boards

?Laboratories

?Student Induction Programs

?Meetings/Interactions with employers

?Parent meet

?Faculty meetings

?Alumni meetings

?Professional Body meetings

?Library

HODs, Faculty, Class Teachers, Mentors, and Course Coordinators will educate students on POs, PSOs, and COs. In a nutshell, PSOs are the specific skills and accomplishments that students must achieve by the end of a programme. Program coordinators, in consultation with course coordinators, prepare PSOs. The BOS, including the department head and subject experts, will discuss and approve it after the principal.

Program Outcomes (POs) are broad statements that describe the professional accomplishments that students should achieve by the end of the programme. POs include much interrelated knowledge, skills, and personality traits that students must acquire to graduate.

Course outcomes (COs) are direct statements that describe essential and enduring disciplinary knowledge, abilities, and expected depth of learning. They are defined and shared. When preparing course outcomes, the course coordinator consults with concerned faculty members. The module coordinator will check. Finally, they are approved by the department's BOS.

The program's POs are published electronically at the college's website <http://www.mist.ac.in/>. The COs for the courses are also available electronically at the college's website: <http://www.mist.ac.in/>. POs, PSOs, and COs are explicitly promoted in all student interactions.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

Response:

Our Institute is affiliated with JNTU, Hyderabad. We offer UG and PG programmes. The Institute follows the university's curriculum for these courses.

The institution's programme and course outcomes are stated on the website and communicated to teachers and students in various ways.

The students' strength and passing percentage have increased as the attainment is measured. The increase in pass percentage and stability over time proves PO, PSO, and Co attainment. Moreover, in the last five years, the number of students advancing from undergraduate to graduate studies has increased steadily.

Similarly, the student placement ratio is increasing. We took great care in measuring the attainment of POs, PSOs, and COs using formal and informal methods. We listened to all stakeholders and tried to act accordingly.

The college then measured the PSOs and COs and implemented the Mechanism as follows:

?The Institute follows the JNTU Academic Calendar.

?All the subject teachers will maintain an Academic Diary every academic year.

?All the subject teachers will prepare Semester-Wise evaluation Reports.

?The internal examination committee analyzes evaluation reports of results.

?Institute will consider the Stakeholders 'Feedback for attaining POs, PSOs and COs.

?The placement committee took the review of the Students' Progression to Higher Studies and their Placement.

CO Attainment is calculated using university exam results. College attainment levels are finalized and sent to IQAC via the Internal Examination Committee. Assigning weights to each CO determines their attainment level.

Weight	Benchmark students securing
1.	40% to 50%
2.	50% to 60%
3.	>60%

Each course's average attainment of Cos is mapped to POs & PSOs.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 68.16

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
239	263	278	304	334

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
392	378	399	423	486

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey

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

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document
Upload any additional information	View Document

NAAAC

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 13.19

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
1.41	3.90	2.39	1.66	3.83

File Description	Document
List of endowments / projects with details of grants	View Document
e-copies of the grant award letters for sponsored research projects / endowments	View Document
Any additional information	View Document

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 1.98

3.1.2.1 Number of teachers recognized as research guides

Response: 4

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

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 62.22

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

2020-21	2019-20	2018-19	2017-18	2016-17
5	6	6	5	6

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
9	9	9	9	9

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document
Paste link to funding agency website	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

3.2.1. Institution has created an Ecosystem for innovations and has initiatives for creation and transfer of knowledge

The institution has created an ecosystem for innovation including incubation Centre and other initiatives for creation and transfer of knowledge. The faculty members are empowered to take up research activities utilizing the existing facilities.

Research and Development Cell (R&D Cell) of MAHAVEER Institute of Science and Technology Promotes the students and faculty member of the institute for research and innovations related activities in their respective domains. It aims to nurture research culture and training in research and related skills for enhancing the academic quality and the general research capability of budding entrepreneurs to compete the technical world. R&D Centre try to bridge gap between academics and industries to make education more sustainable. This centre committed to improve the quality of education, in terms of technological based learning and provide the solution for societal problems. Main Objective of R&D Cell is

- To create awareness and Research atmosphere among faculty and students of various departments.
- To inculcate culture among the staff members to undertake Research projects and improve their

knowledge, skills and qualifications by registering for Doctoral Programs.

- To motivate the faculty members for R&D activities in the area of their specialization.
 - To encourage students and staff to publish technical papers in National and International Journals/Conferences of repute.
 - To undertake research activities and development projects offered by funding agencies such as DRDO, RCI, DST, AICTE, UGC, etc.
 - To assist for applying and getting funds for conducting Seminars/Workshops/FDPs from various available funding agencies
 - To facilitate the growth of research activity among the academic community.
 - To coordinate faculty level workshops and staff development activities on research-related issues.
-
- In order to promote research and development activities, the institute extends its full support to students/ faculty/ staff. Full/Partial financial support is given to all innovative research & development works taken up by the students, faculty and staff members. The college encourages students, faculty and staff to participate in National/International Conferences, Training programs, etc.

The Student Incubation Centres are established in the labs of every department. The R&D cell co-ordinates with Student Incubation Centres of all the Depts of the Institution. Most of the Depts. have MOUs with Industries/Institutions for B.Tech & M.Tech Mini & Major Projects and encourages and rewards students for their incubative ideas in developing Projects

To organize the workshops, Conferences, and FDPs to create awareness about Patent and IPR.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 96

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
30	30	13	10	13

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

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 7.75

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 31

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 4

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
URL to the research page on HEI website	View Document

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

Response: 1.56

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

2020-21	2019-20	2018-19	2017-18	2016-17
193	49	19	56	45

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

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

Response: 1.23

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

2020-21	2019-20	2018-19	2017-18	2016-17
198	15	21	25	26

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

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

Mahaveer Institute of Science and Technology strengthens its students in overall development and helps students to promote social responsibilities and Holistic Development through NSS activities carried out in the institution right from inception.

Social activities are those that need connection and communication with others. These are ingrained in social structures such as self development, education, and Health. A meeting or a class of awareness program on various activities are conducted in college.

Social activities keep students alert and mentally engaged, which is crucial in overall development of student. Taking care of one's emotional well-being. Connecting with others keeps you in a good mood, which helps you avoid depression. Physical health is being improved which is one of the most important in today's fast Development ubiquitous environment.

(I) NATIONAL SERVICE SCHEME (NSS)

The NSS motto, "Not Me, But You," encapsulates the core of democratic living and emphasises the importance of selfless service. NSS teaches pupils to value other people's perspectives and to demonstrate concern for 'other living beings.' The NSS concept is perfectly portrayed in this motto, which emphasises the belief that an individual's well-being is ultimately dependent on the well-being of society as a whole, and hence NSS volunteers should strive for society's well-being.

Our college has been assigned one NSS unit by JNTU University. With 200 volunteers, our college's NSS unit actively contributes to the development of compassionate and responsible citizens among our students.

We run a special seven-day camping programme in designated locations that gives students unique possibilities for group living, sharing collective experiences, sharing responsibilities, addressing numerous developmental concerns of regional and national importance, and close connection with the community.

ACTIVITIES UNDERTAKEN BY THE NSS UNIT OF MIST ARE LISTED BELOW:

1. Haritha Haram
2. Yoga class
3. Class on self confidence
4. Cultural fest
5. Aids Awareness
6. Class on personality development
7. Blood group identification camp
8. Visit to orphanage
9. Vivkenanda Program.
10. Swatch Bharat.
- 11.2kRun

MIST Red Cross Club (MRCC) is a comprehensive promotional and preventive strategy aimed at increasing voluntary blood donation as well as mainstream HIV and AIDS prevention, care, and treatment impact, mitigation, and stigma reduction among students in educational institutions. It will also train and promote young people to become peer educators both on and off campus.

The MRCC's operations include

1. Blood donation

2. Blood group identification camp

3. HIV awareness programs

MIST NATURE CLUB (MISTNC)

A nature club is a group of young people who promote environmental awareness in their communities. Because a club represents the collective desire of its members, it can effectively raise conservation consciousness. In our institution, there is a Nature Club that does everything it can (such as hosting lectures) to raise awareness about environmental conservation

PROGRAMME OF VIVEKANANDHA:

Every year Mahaveer Institute of Science and Technology celebrates National Youth day in view of birthday of Swami Vivekanandha on 12th January

SWACH BHARATH PROGRAM:

Swacha Bharath program is conducted every year in the college for developing awareness and importance of cleannes

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 91

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

2020-21	2019-20	2018-19	2017-18	2016-17
6	31	22	24	8

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 91

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

2020-21	2019-20	2018-19	2017-18	2016-17
6	31	22	24	8

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

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 96.46

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
874	1560	1973	1603	1370

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

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 231

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
84	67	40	20	20

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 62

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

2020-21	2019-20	2018-19	2017-18	2016-17
13	13	13	12	11

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

NAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

Description:

Mahaveer Institute of Science and Technology established in the year 2001 is one among the top 20 colleges in Telangana. The college is situated in 7 acres 19 guntas; Contiguous campus with 21,100sq.mt built up area, and is affiliated to JNTUH. The college is offers 8 undergraduate and 4 post graduate programs. MIST has state of the art infrastructure, creating an environment for progressive learning and development. We have well equipped 52 class rooms in which 32 ICT& 20 Non-ICT rooms including seminar halls. Eight departments of MIST are doing research activities under R&D Cell. Each lab is handled by one faculty supported by a co-faculty. Also, every lab has a lab instructors/ technical assistant, who provides constant support and ensures maintenance of the laboratories

Apart from regular labs, we have R&D cell, in order to fill the gap between the curriculum and industry. The equipment in the lab is identified by unique code and the records of the same are maintained. Systems are protected with antivirus software. All equipment are always checked for wear and tear and replaced with new or repaired one every semester. Before the commencement of every semester faculties ensure the availability of required software/equipment for the smooth conduction of the labs. Labs are equipped with licensed hardware and software to run program specific curriculum and off program curriculum. Enough number of personal computers is available for the smooth conduction of the lab .The number and size of the class rooms and labs are as per the AICTE norms.

The faculty innovations in teaching and learning are as follows:

1. Learning management system (LMS Modules)

LMS of MIST is a student centric learning facility for the students to refer the study materials anytime within the campus premises. It is a centralized source for notes and slide based presentation for all the branches.

2. NPTEL Materials

For each subject there is one hour NPTEL session allocated per week. The prerecorded NPTEL videos are projected to the students during NPTEL hour. The relevant study materials can be accessed from NPTEL.ac.in &NPTEL video. in

3. Scope of self-learning/learning beyond syllabus

Students are given assignments and practical projects to promote self-learning NPTEL and internet

resources help in self-learning.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

The institution has adequate facilities to support games, sports, cultural activities and also it conducts different extra activities to encourage students in different aspects. The college has large no of options to play various indoor games like Badminton, Table tennis , Chess, Caroms in the area of 385 sq mtrs and is established in 2015 and users per day is approximately 20. The college has wide options to play various outdoor sports like Cricket, Volleyball, Kabbadi, Kho-Kho in the area of 6 acres is established in the year 2005 and users 40.

The institution encourages the students to participate inter college level, university level and national level and it also conducts district level and state level tournaments like table tennis, Kabbadi ,volleyball , throw ball, khokho ,chess, carrom, chess national level etc.

The institution organizes traditional day, annual day, international yoga day, Harita haram etc to encourage the students in other events along with studies.

Institution has NSS unit with around 300 participants to orient the student youth to community service leadership qualities, democratic attitudes and to meet emergencies and natural disasters.

The campus has play ground and one indoor auditorium for different games and sports events. Both the physical directors are well qualified and experienced to train the students to participate in different sports events conducted at inter college level and university level.

File Description	Document
Upload any additional information	View Document
Paste 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. (Data for the latest completed academic year)

Response: 61.54

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 32

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 100

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
18601652	28384352	11164189	33234745	37853435

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

Library is fully automated in the year 2010 and New Gen Lib (Helium 3.2 version) is the software used for Circulation, Procurement and Project Reports. All the library documents are bar-coded and books are issued to users by reading the barcode of the document.

Since the Library is fully automated, the holdings of the Library could be searched using OPAC. The library is member of the DELNET since last 7 years. It is being extensively used for ILL and searching the database of other member libraries. The Library has become the member of the NDL to access the vast e-

resources that are available.

The Library has the internet facility through which the e-resources could be accessed. The Central Library is a member of the J-Gate E-Resources Consortia. The users can access around 50000 journals in which 25000 full text journals are available.

The Central Library is also a member of DELNET which gives access to E- Books and 5000 full text E-journals both National and International. The Central Library is also a member of NDL which has a collection of more than 6 lakh e- books which the students and staff are utilizing.

Back volumes of journals, Project Reports, Question Banks, Syllabus sets

The journals that are being subscribed are stored as back volumes. Library also maintains Project reports submitted by the students as part of their course curriculum.

Library Facilities & Services Reprography and Scanners facility

A high end HP Xerox machine is available in library which has the facilities like copying (both colour and black and white), scanning, and printing.

Open Access of arrangement of print and non-book materials.

Right from the inception of the Library, it is following the open access to all its documents housed in it that includes books. Bound volumes, reports and other reading material.

Library bay guides to locate the materials easily

The library has good bay guides which helps the readers to easily locate the books and other reading material even without the help of Library staff.

Well Maintain Library Registers and Files

The files relevant to Library and Library services are well maintained and labeled for easy access to any of the Library staff.

Display of New Arrivals

All the new books and journals are kept in the new arrival racks.

Display boards of library data and services

There are library data boards which give information about the collection and services offered and staff details.

Library Orientation Programs:

Whenever a new batch of students join the college, a counseling program is carried out in which details about the Library collection, services, timing and doubts of students if any are cleared.

Power back up (UPS):

The Library has its own power back up. Efforts are also being made to get the support of the central UPS which caters to the institute.

Drinking water facility

On the first floor of the Library, there is water filter which has both normal and cold water facility.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 9.12

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e-journals year wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
1.41	7.78	10.5	12.17	13.73

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Response: 2.84

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 48

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

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Almost all the departments have LCD projectors, overhead projectors, printers and scanners. The computers and printers of all the departments have software installed on them and the Hardware is also maintained from time to time. The college website is monitored and updated from time to time by the IQAC cell of the college.

The College aims at providing the futuristic facilities to its students so that they can utilize these resources to reach greater heights. Our classrooms have been equipped with LCD projectors. The entire campus is monitored by CCTV facility. The CCTV installed at strategic places help monitor the campus activities.

The institution provides free Wi-fi facility to the students. Information about upcoming events is available on the website. This information includes the time and date along with details about the event. This allows the parents to be aware of the programs being conducted in college as well. For easier communication, circulars, including important notices to students and parents are also posted online using Android App. The academic calendar as well as the course information is also updated at the beginning of every academic year in the app.

At UG and PG level, the teachers use Internet for providing notes to the students wherever required and necessary. Our College has 164Mbps internet connectivity (100Mbps provided by BSNL and 64Mbps

provided by Vynavi Internet Service Provider.) with wired and Jio Wi-Fi hotspots with extenders. The institute has a 24X7 Wi-Fi facility in the college campus for the student and faculty members to avail internet connection at any place in the college & hostel. The connectivity through a fully networked campus with state-of-the-art IT infrastructure, computing & communication resources, offers students the facilities of e-mail, net surfing, up/down loading of web based application, besides helping them in preparing projects & seminars.

The College has the vast IT infrastructure with Software and Hardware Labs. The software available in the college are Windows 10, MS Office, Xilinx, Mentographics, Tina, Catia, Ansys Software 10 Version, Auto CAD, MATLAB, Flexisim, Automod, Edgecam, Robosimulation software, Croe, pro-e etc., The institute has software installed in English Language Lab (GLOBRINA, el-client).

Since 2001, networking standard used has been 'cat6 cabling'. All the hubs have been upgraded to 100 Mbps and rack mounted. All computer laboratories are having UPS backup of 60 minutes.

Wi-Fi:

10 Extendable Wi-Fi access points are placed in various places like Library, corridors, Labs, hostel, Canteen and outdoor. Wi-Fi access is provided to all the students which is monitored and controlled by Vainavi and BSNL, fire wall at the IT department for secure content access. All access points are routed to a Wi-Fi controller in the Data Centre where configuration and updates are maintained in a centralized fashion.

S.No	Year	Date	Nature of updation	
1	2020-21	16-3-2020	120(systems)	
2	2019-20	10-7-2018	6(projectors)	
3	2018-19	10-7-2018	40(LED SCREENS)	
4	2017-18	26-02-2018	60	
5	2016-17	6-2-2017	20	

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2:1

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: A. 750 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 100

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

2020-21	2019-20	2018-19	2017-18	2016-17
18601652	28384352	11164189	33234745	37853435

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	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:

MIST college properly maintains, utilizes physical, academic, and other facilities. A few specific initiatives

undertaken to improve the physical ambience of the campus, in the last five years are: Coloring of buildings. False ceiling of labs and class Rooms, Planting of new trees. New Seminar Halls for ECE and EEE Dept. Display of Vision and Mission Boards. Construction of Separate Hostel for Boys and girls.

A location supervisor will observe electrical, plumbing, and housekeeping related issues/complaints. Regular inspection, maintenance of the furniture's and classroom equipments is done on a regular basis. He also looks after the maintenance of other infrastructural facilities such as a playground, drinking water, parking areas, lawns, gardens, sewage treatment plants, whitewashing, restrooms etc.,. Garden maintenance is taken care of by a team of gardeners.

General Security:

In house security guards are deployed at the college main gates, hostels and other strategic locations in two shifts round the clock. They take care of the security in the buildings and also check all the outsiders entering the campus.

Transport:

A transport in charge is constituted to address and rectify any transport related issues.

Sports facility Maintenance:

The sports facilities of MIST are maintained by physical education department. A stock register and an issue register are maintained to ensure the proper handling of the sports items. Stock verification of the sports items is conducted at the beginning of each semester. Regular maintenance of the play area is conducted under the supervision of Physical education director.

Computers:

To maintain computers, internet connectivity and CCTV security system, network and system administration team is appointed. System Administration team also resolves the issues like hardware trouble shooting, software installation, Maintaining Biometric devices and network related issues. Cameras are installed in various vantage points inside college campus. Class Rooms are provided with CCTV camera. Campus is equipped with CCTV camera on main places with 24x7 security system, necessary human power is available to take care of the facilities.

Library:

We have a huge collection of books that are easily accessible for use with the motto of empowering knowledge. Proper rules and regulations are been followed in the library. Library is fully automated with in Modern lib software and barcode Technology. Our Library maintains a Book Bank facility to help needy students belonging to economically and socially weaker sections of the society.

Laboratory Maintenance:

All the laboratories are good enough with proper ventilation. Experiment lists are displayed in the concerned labs. Student Log -In register, stock register, Invoice files and purchase bills are maintained for each lab. All laboratories are effectively used by the students as per their time table during the college hours. Beginning of every semester, checking of all the equipments is done and brought to the notice of the Head of the Dept. First aid boxes, fire extinguishers are provided wherever necessary.

Electrical Maintenance:

Our college has a huge solar panel available on the terrace which is regularly checked by the EEE dept. Electricians are also available, who maintains electrical equipment such as generators, UPS, and Batteries. They resolves the issues in electrical equipments of the labs, class rooms and other places of the campus at regular intervals.

Water Plant:

Our college has water Plant that provides drinking water to the college and hostel. The entire college campus is facilitated with pure drinking water with water coolers in every floor to cater to the need of pure and safe drinking water to all. We have 10000 litre / day RO systems installed in the campus. Regular testing and proper maintenance is done to ensure the pure drinking water.

Fire Extinguishers & First Aid Equipments :

Fire Extinguishers are provided in different locations of the building for Safety purpose. First Aid Equipment is provided in each lab.

Hostel / Mess Equipment:

A separate building for boys and girls hostel is been built to ease the students of non locals. Cots, Fans, Tube lights, TV, cooking vessels, cooking stove, etc., are maintained by Deputy Warden / Mess I/c. Monitored periodically by the staff assigned for the hostel. Biometric is also available for the students to keep track of them entering or leaving the hostel premises.

File Description	Document
Upload any additional information	View Document
Paste 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 last five years

Response: 67.05

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
999	953	966	1101	1160

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 0.6

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
14	20	01	04	06

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 23.43

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

2020-21	2019-20	2018-19	2017-18	2016-17
415	455	335	352	215

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

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

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

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

5.2 Student Progression

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

Response: 12.12

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

2020-21	2019-20	2018-19	2017-18	2016-17
56	43	24	58	74

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 10.46

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 41

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	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: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 536.05

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

2020-21	2019-20	2018-19	2017-18	2016-17
41	23	21	10	10

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

2020-21	2019-20	2018-19	2017-18	2016-17
21	5	4	2	1

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document
Any additional information	View Document

5.3 Student Participation and Activities

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

Response: 35

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

2020-21	2019-20	2018-19	2017-18	2016-17
01	01	10	13	10

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

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

Students' Welfare committee:

Students' of our institution is the representative body of the entire student community. The mission of the Student Welfare is to organize various activities under the guidance of faculty members, develop and enhance various skills, such as leadership quality, social awareness and a sense of social responsibility for the betterment of the students.

The student welfare council takes an active involvement in conducting various events like tech fest, fresher's day, engineers' day, farewell day, Seminars, Workshops, Symposium, International Conference, and so on.

This council encourages and ensures the involvement of students in various academic and administrative committees. The objective of involving students in various committees is to give importance to the views

of students thereby improving their confidence, leadership skills, and decision-making skills.

Anti- Ragging Cell:

Student representatives in this cell create awareness about Anti Ragging and ensure a friendly environment between juniors and seniors.

Sports Committee:

The sports committee consist of two sports in-charge and two student sports secretary who ensure that every student participating in any activity will get a chance to present her skills and abilities and perform to their best.

Students will be able to take part in various competitions and develop a leadership quality and improve their physical well-being

Canteen Committee:

A canteen committee is responsible for monitoring the operations of the canteen and implementing and reviewing the canteen policy. They may also be responsible for specific decisions as specified in the canteen policy, such as employing staff, authorizing major purchases or authorizing changes in the menu.

NSS Committee: It aims to involve the maximum number of students in NSS activities.

Sports & Cultural Committee: Student representatives of this committee encourage and promote various sports and cultural activities.

Student Grievance Redressal Cell:

Student Grievance Redressal Cell involves student representatives in resolving issues and grievances of students

Anti-Sexual Harassment Cell:

The student representative in this committee helps to sustain a healthy and congenial atmosphere to all the female students and staff members.

SC/ST Cell, Minority Cell, OBC cell:

Student representatives in these cells bring the issues and avenues for empowerment of their communities into the notice of higher officials.

In addition to the above committees, student representatives are included in the **Hostel Committee, Canteen Committee and Transport Committee** to ensure its effective functioning and resolving issues if any. Active involvement of the students in various committees significantly leads to their holistic development.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 40.6

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
27	38	42	74	22

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

An alumni association is an association of student fraternity, more of former students (alumni).

These associations mainly organize social events, publish newsletters or magazines, and raise funds for the organization. Some may provide a variety of benefits and services that could help the alumni and maintain connections to their educational institution and fellow graduates. Members of this association shall enjoy membership and other privileges.

Additionally, these groups support new alumni, and provide a opportunity to form new-fangled friendships and business relationships with people of comparable background.

Vision of Alumni:

To engage the Mahaveer educational community to support and advance the institution's excellence and development.

Mission of Alumni

The Mahaveer Alumni Association cultivates a long-lasting soul of belonging and pride by interfacing graduated class, understudies, and companions to the Mahaveer Educational Institutions to one another. The Alumni Association advocates for the school and its graduated class with a valid, autonomous and cooperative voice

Aims and Objectives

- To advance and encourage commonly useful connection between the Alumni and the current understudies of the Mahaveer Institution and between the actual Alumni.
- To support the arrangement of Chapters as a way to expand cooperation of Alumni.
- To empower the graduated class to partake in exercises that would add to the overall improvement of the school.
- To orchestrate and gather assets for the advancement of the school.
- To urge the Alumni to take a functioning and withstanding interest in the work and progress of the Institute to contribute towards improvement of the social utility of their Alma Mater.
- To sort out and lay out grant assets to help the destitute and meriting understudies.
- To Institute prizes and grants for exceptional undertaking work, research papers or other expert movement by the understudies of the Institute; likewise, to appropriately perceive remarkable social and local area administration by the Alumni and the understudies.
- To embrace to arrange exercises of a municipal or magnanimous nature as additionally to build public familiarity with the job of innovation in esteem option in the monetary and social improvement of the country.
- To contribute and manage the assets and cash of the Association.
- To exploit creating innovations like the web in accomplishing the points and objects of the Association.
- To organize get together of the graduated class and social/social elements of the graduated class;
- To raise different blessing assets and grant allowances out of it to the meriting understudies on need-cum-merit premise
- To lay out a connection with the Mahaveer graduated class and select them as individuals

Core Values

Graduated class Association is focused on greatness in the entirety of its exercises and is devoted to the accompanying guiding principle:

- Faithfulness - Pride in and obligation to the future that we are making all together and a graduated class local area, while regarding our set of experiences, customs and accomplishments.
- Uprightness - Transparency and moral conduct in our connections as a whole.
- Variety - Recognizing and esteeming contrasts and looking for elective points of view and comprehensiveness in everything that we do.
- Development - Striving to be an industry chief in graduated class relations through an inventive and groundbreaking plan of action.
- Persistent Improvement - Pursuit of greatness through deftness and responsiveness to partners and the climate.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: A. ? 5 Lakhs

File Description	Document
Upload any additional information	View Document
Link for any additional information	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 and in tune with the vision and mission of the institution

Response:

Response:

Vision

To be a centre of excellence in technical education with research orientation and to develop human resources to serve the society and nation building.

Mission

M1: To provide comprehensive technical education programmes in various disciplines and to contribute effectively to the profession and the society.

M2: Establishing centre of excellence in inter disciplinary areas which are important and relevant to industry and employment with scope for research.

M3: To inculcate human values and ethical practices to the graduates through co-curricular and extracurricular activities.

Nature of Governance

Mahaveer Institute of Science & Technology since its inception in 2001 has committed to quality education. MIST aims at providing learning with a technology-edge. It endeavors to provide consistent training to its students to help them evolve as competent professionals in the highly competitive world. The Governance of the Institution is strictly in accordance with the Vision and Mission of the Institution. The major decisions which have a bearing on the functions and the goals of the institute are done by the Governing Body.

The Institution is headed by the Principal. Principal is the head of both the Academic and Administrative bodies and performs his roles with the assistance of the HoDs. HoDs will execute the decisions and policies with the assistance of Teaching & Non Teaching Staff.

The policies and action plans:

The management and Principal actively participate in Governing body for ensuring that the policies and action plans are aligned for attaining the mission of the institute.

Principal and HOD's make action plans in coordination with faculty members to review the outcomes and submit report to the top management for recommendations.

Perspective Action Plans:

The Qualitative action plans are formulated under the leadership of the Principal in coordination with HOD's and structured as strategic plans for effective implementation. Execution of plans are monitored on regular intervals. Basing on the results, action plans will be restructured where ever required.

Participation of Teachers:

Teacher representatives from every Department will be acting as members of various committees of the Institute. They will be involved in various aspects relating to Planning, Decision Making and implementation of strategic actions.

Teachers also play a major role in examining and assessing the students in a transparent way and in tune with strategic regulations.

File Description	Document
Upload any additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management**Response:****Response:**

The institution practices decentralization and participatory management in keeping with its belief in collective leadership and democratic traditions. This can be seen in the extensive delegation of authority to the Heads of the various Departments, teaching, non- teaching and administrative staff members in the college. Principal is the main authority of the college and its functions. The decision making committee at the college level is the IQAC headed by the principal. IQAC does the planning and evaluation for quality assurance in the college and organizes meetings periodically throughout the year to gather and discuss on new and innovative ideas, decisions are made regarding the better infrastructure and improvement in the academic performance of the students..

Before the commencement of each academic year various college committees are formed by IQAC under the guidance of the Principal. Each committee consists of faculty members of various departments. Every committee has the freedom to prepare their plan and decide implementation strategies. All important decisions are subject to the approval of the duly constituted committees. The institute has a inter-relationships among the delegates with adequate authority to promote the result oriented work with great care to manage different institutional activities. For the benefit of the students and faculty, enough financial powers are extended to the Principal and Heads of the departments. This can be achieved with the great support of the management.

Heads of the departments are empowered to individually plan their activities such as:

- The programmes for the entire term are decided.
- They decide the academic coordinators, class teachers and counselors who provide academic support, guidance etc for the betterment of students performance
- Takes the lead in planning seminars, workshops, career counseling sessions, remedial measures, interdepartmental or/and inter-college exercises, departmental excursions and study tours.
- Plan to introduce creative and innovative measures for the benefit of his/her students.

A case study: International Conference- Proposal, Approval and organizing

Mahaveer Institute of Science & Technology has conducted “International Conference On Recent Challenges In Engineering, Management, Science And Technology (ICEMST)” on 29th and 30th January 2021 in the college premises. The International Conference is a unique forum bringing together the world's largest humanitarian network and it is a major event on the premier global forum to enhance and inspire the ideas. It also provides a key platform to share experiences and propose strategic recommendations to strengthen the role of development at international level. The exchange of ideas on fields of interests seeds the links for future collaborations.

The Heads of departments and senior faculty members planned for conducting the Conference in the college. The proposal was sent to the Principal and the management for approval. Once it was accepted various committees such as Program Coordinators committee, Publicity committee, Hospitality committee, Technical committee, Transport committee etc were formed. These committee incharges prepared the budget proposals after in-depth analysis of the requirements. The final budget proposal was prepared by the program coordinators after analyzing all the requirements forwarded by the committee incharges. Then finally the proposal was forwarded to the Principal for approval. All the committees worked in coordination with the teaching and non teaching staff for the smooth flow of the assigned work.

File Description	Document
Upload any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The development of the structured quality policy is continuous process in Mahaveer Institute of Science and Technology. Quality policy was originally stated by the governing council and is derived and aligned with respect to the vision and mission of the institution. Quality policy clearly states the objectives with respect to the vision and mission of the institution, their process of progress towards the achievement of objectives and its contribution to the society. Every semester these processes are reviewed and the necessary corrections are incorporated.

The academic quality policy of the college is to have infrastructure which is state-of-art, recruit qualified

teachers and the teaching-learning process must meet the program outcomes. Continuous appraisal of the performance of the students, teachers and administrative staff is done regularly.

Deployment Activity Example:

Our Institution has the following strategic plans.

- To establish Women Empowerment & Anti-Sexual Harassment Cell.
- To develop highly effective teaching-learning practices like FDP, guest lectures, workshops, and technical fest.
- To engage with student training and development programs etc.
- Discovery learning in terms and interactive Engineering skills of design-build-test; using learner-centric teaching learning processes in courses offered by all departments
- Providing laboratory and workshop facilities for designing, fabricating and testing student's projects/products.

Women Empowerment Cell (WEC) has been constituted to empower and safeguard the rights of female members, faculty staff and students of College. The WEC works to promote gender sensitivity in the college and conduct diverse programs to educate, sensitize both male and female members and produce a harmonious atmosphere on the campus.

Given below is the constitution of Women's Welfare Committee:

- The Committee coordinator will prepare the guidelines for the working of committees and get approved from the Principal.
- The College will recognize the members for their outstanding services for working and a certificate of merit/award may be given.
- The Committee members may meet once in two weeks to discuss the progress. Minutes of committee meetings may be recorded with the signatures and may be put up to the Principal for approval and perusal.

Complaint and Redressal mechanism :

- A written complaint is required to be taken from the aggrieved person, necessary action to be taken, preferably to settle the matter through counseling and conciliation and the matter to be sorted out within 10 days from the date of complaint.
- After knowing the grievance of students, class Mentor discusses it with the HOD and then an appropriate solution is found out. If not solved at this level then the grievance is taken up to the Principal through WEC.
- The outcome will be informed to the complainant and to the administration/management.

Activity successfully implemented:

The Committee has to ensure enough steps are taken to create awareness on the topics.

The Strategic Plan for 2016-2021 was reviewed in May-June 2021 for developing a Five Year Strategic Plan for 2021-26.

File Description	Document
strategic Plan and deployment documents on the website	View Document

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

Response:

The organization has a well- defined administrative set up with Governing Body as the highest decision-making body and various committees. As per the guidelines prescribed by AICTE, Mahaveer Institute of Science and Technology regularly oversees the operations of various functions. This body has the administration with a composition of eminent and renowned personalities from academic, industry and service sectors along with a representation from all of its stake holders. It prepares institutes academic, financial, physical and staffing strategies, aiming the institutes growth and development towards its vision. In order to govern and review the progress, the governing body meets at least twice in an academic year.

Functions of Various Bodies:

Governing body is consists of Academic council/principal/vice principal, Senior Faculty members as well as HoD's. The body meets once in a semester in general and few more times on the basis of any ad-hoc need, Decisions like introduction of new course, closure of existing courses, construction of new blocks , enhancement of physical facilities and other initiatives for improvement of the institution are taken in the form of society resolutions in the governing body, Governing body is the ultimate authority for any decision in the institution. Administrative head of the institution is as per the organization chart of the organization Governing body being the ultimate authority will have the principal is the academic and administrative head of the institution. Heads of the department report to Dean Academics, staff report to respective coordinators. coordinators are under Heads of the department. there are directors, deans and leads under chairman for development activities.

Service rules have been formulated as per the guidelines of competent authorities like affiliating university and approval body(JNTUH and AICTE) and institutional values.

File Description	Document
Upload any additional information	View Document

6.2.3 Implementation of e-governance in areas of operation

1.Administration

2.Finance and Accounts

3.Student Admission and Support**4.Examination****Response:** C. 2 of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document

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

- Institute provides opportunities to all employees to associate with state, national and international professional bodies.
- Institute encourages teaching, non-teaching staff to participate in workshops, conferences, FDPs for their continuous developments.
- Institute appreciates and support employees to conduct training programs and arrange industrial visits.
- Institute always welcome new ideas from the experienced faculty about lecture delivery, laboratory work, and seminars/workshops, to provide guidelines to the new family members. They may have one-to-one interaction or common lecture as mini-workshop.
- Institute provides free transport facility to all the employees from nearest place from their resident around & across the Hyderabad.
- Staff members are encouraged to register for part-time Ph.D., Programmes to improve their qualification.
- Permission to faculty to deliver guest lectures at other institutes
- Provision of class rooms are equipped with LCD for facilitating the faculty to use latest technology for delivering the lectures effectively
- Advanced and licensed softwares are provided for enhancing the professional skill sets of the faculty.
- Faculty Development Programme such as Yoga and Transcendental meditation are periodically conducted in the campus for improving their life quality.
- Recreation activities such as sports, games and cultural Programmes and competitions are held annually.
- First Aid with all accessories are kept in the laboratories where moving machinery is installed and also at strategic locations. Emergency medical care and first-aid is available in the campus with one Ambulance. General medicines are made available in the centre.
- The College encourages the teaching staff to organize in house development programmes such as

seminars, workshops, etc.

- Institute provides maternity leave to the female staff according to the norms.
- Institute provides twelve casual leaves in a academic year. And all other leaves as per the JNTUH norms.
- Granting special (OD) leaves for Ph.D related research study & valuation of exam answer scripts at JNTUH spot valuation centre .
- Giving financial assistance for membership registration in professional bodies
- Subsidized Canteen is provided for both teaching and Non-teaching staff
- Festival advance for non-teaching staff.
- An Ambulance with all facilities is available in the college round the clock for emergency services.
- All Department HOD's will be facilitated with Laptops.
- Reimbursement of premium for medical insurance for policy value up to Rs. 100,000/- for non - teaching staff.

File Description	Document
Upload any additional information	View Document

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

Response: 33.48

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

2020-21	2019-20	2018-19	2017-18	2016-17
161	37	50	80	41

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

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

Response: 14.8

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

2020-21	2019-20	2018-19	2017-18	2016-17
22	16	10	14	12

File Description	Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).**Response:** 40.41**6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2020-21	2019-20	2018-19	2017-18	2016-17
294	31	38	34	29

File Description	Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff**Response:****Response:**

Mahaveer Institute of Science and Technology has the performance appraisal system to assess the progress and potential of staff members. The self-appraisal form is filled by the staff member concerned for the appraisal. Performance Appraisal system is one of the essential significant features for providing quality education.

The salient features of the performance appraisal system are as follows:

Teaching Staff

For effective evaluation of the faculty at the institute, the other parameters considered are students' feedback, punctuality, preparation, presentation skills, Management of discipline and control, subject knowledge and Approachability.

Technical guidance in students' projects, Initiatives and participation in various activities like seminar, workshop, FDP:

Faculty Paper and Journal publications, Conferences attended, Pursuing higher studies, Consultancy projects, Honors/Awards/medals received, Professional body Memberships, Value added courses, Textbooks authored, Editor/ Journal Reviewer, Resource person, Coordinators at college and department level, Service to institution and any other achievements.

Contribution towards Learning Resources Development at Institute, innovation in teaching, and efforts for Lab Work/Tutorials and University related work is also taken into account for faculty appraisal.

It also involves the reviews and comments of the HOD, team work and contribution to the department, Instruction compliance, Commitment to the Department and Institution, Mentoring ability and Organizational skills in conducting events.

These are the parameters that are helping the college management to evaluate the teaching staff for the appraisal system which is done every year by the faculty member and it is assessed by HOD/reporting authority and Principal.

Non Teaching Staff

All non-teaching staff are also assessed through annual confidential reports and annual performance appraisal. The various parameters for staff members are assessed under different categories are

1. Knowledge of rules, regulation and procedure
2. Discipline
3. Reliability
4. Maintenance of Files/Records
5. Technical abilities
6. Creativity and innovation
7. Completion of work on schedule
8. Relations/Co-operation with superiors, subordinates, colleagues, students and public
9. Ability and willingness to take up additional load in times of exigencies
10. Departmental Abilities

The comprehensive Annual Confidential Report comprises of 10 parameters. Each one of them is graded on a five-point scale, i.e., Excellent, Good, Satisfactory, Average and Poor. The overall assessment is based on the cumulative grade by the Lab In charge and HOD, which is then forwarded to the Principal by the HOD.

On satisfactory performance, all employees are granted promotions and financial upgradation under the Assured Career Progression (ACP) Scheme.

The Annual Confidential Report and the Performance Appraisal System has significantly helped in the evaluation of the performance of employees, in motivating them, analyzing their strengths and weaknesses and ensuring better performance.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Response

MIST periodically conducts Internal and External audits. Internal auditors along with their team members carefully verify the vouchers, Income and Expenditure A/c's, Balance Sheet statement of the institution every year and will submit the audited statement. This is commonly done at the end of every financial year. External audit is also carried out by another auditor, who will finally authenticate the audited documents. Regular of Internal and External auditing will enhance the quality of the Financial data maintained by the institution.

Internal Audit: Internal audit team supported by Accounts Department will consolidate the budget utilized and the report will be submitted to the Management. This report will be reviewed by the Governing Body and suggestions will be given, if needed.

Internal Audit is done by

External Auditor

C. Ravi Chandra regularly audits the college Financial, Accounting data and ratifies it.

Auditor's Report on the Financial Statements: External Auditor audits the Financial Statements of MIST every year (Income and Expenditure Account and Balance Sheet). He performs the audit to obtain reasonable assurance about whether the Financial Statements submitted by Accounts Department are free of material misstatement. Audit Process generally involves Examining on a test basis, Documentary evidence supporting the amounts and disclosures in the Financial Statements.

It also includes assessing the Accounting Principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

Obtaining all the information and explanation, which to the best of his knowledge and belief necessary for the purpose of the audit, the Auditor finally submits his report stating that proper accounts and all such

related books of accounts prepared by Accountants are satisfactory.

The External Auditor valuable suggestions and were implemented by the institution.

Individual Unit wise bank accounts opened in lieu of College Common Bank Account.

For Example....MIST NSS A/C

The institution now maintains periodical TDS system for all its employees

EX: integrated “Qfix” payment system is used in the institution.

Supportive Documents

Bank A/C's on the name of MIST, MIST NSS a/c's , Income & Expenditure

File Description	Document
Upload any additional information	View Document

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

Response: 45000

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

2020-21	2019-20	2018-19	2017-18	2016-17
9000	8000	6000	10000	12000

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

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

Response:

Response:

The mobilization of funds is an important aspect to maintain quality education in the institution. The majority of the financial needs of the institution will be fulfilled by tuition fees paid by the students. The mere tuition fee from the students is not sufficient to meet the standards. The management takes initiative to fill this financial gap. Faculty members actively involved in generating funds by submitting their research proposals to various funding agencies and by undertaking the consultancy services. These funds are utilized for developing research laboratories and upgrading the facilities.

The institution follows a well-defined mechanism for monitoring the effective utilization of the financial resources for academic process and infrastructure development. The budget for every year is proposed by the finance committee after taking into consideration the requirement of each department. After getting approval from the principal and governing body on the proposed budget, the finance committee will ensure the effective utilization of the allocated funds.

Optimal Utilization of funds can be done as follows:

Conducive academic ambience. Constant encouragement for professional development. Thrust for research and publication and various staff welfare schemes. Environment-friendly campus with facility for rainwater harvest, segregation of wastes and diverse flora promotes natural resources conservation.

File Description	Document
Upload any 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:

Response:

The Internal Quality Assurance Cell was started in the year 2016 to monitor the quality of services being provided by the institution to its stakeholders. An IQAC committee is formed and approved by the governing body to take care of Quality assurance strategies and processes. The Institute's existing policies on academic and administrative systems are in respect of the process of teaching-learning and evaluation system, academic performance, faculty recruitment and training/qualification enhancement, are initiatives of IQAC. IQAC has contributed significantly to continually improve the infrastructure, enhance the faculty competencies, and empower the students to become employable.

Two examples of best practices institutionalized as a result of IQAC initiatives are

1. Faculty Development Program

In pursuance of quality consciousness and sustenance, every accredited Higher Educational Institutions (HEIs) established an Internal Quality Assurance Cell (IQAC) as a post-accredited quality sustenance measure. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. An internal mechanism for sustenance, assurance and enhancement of the quality culture of education imparted by HEIs, therefore, become essential.

Recognizing the importance of such institutional internal quality system, the Mahaveer institute of science and technology, has taken a policy decision to conduct a Faculty Development Programme for IQAC coordinators.

2. Pre Placement Training (PPT)

Pre Placement Training is also one of the notable initiatives of IQAC, to enhance and improve the employability skills of students. As part of PPT, all the students have been trained in various skills such as communication skills, Aptitude skills, Reasoning skills, Leadership skills, and technical skills. T

his institution offers a long term Pre-Placement Training (PPT) to all 2nd year 1st sem to 3rd year 2nd sem students from the beginning during their regular classes where 2 hours' time is allotted for training in a week. For final year students, special advanced Pre Placement Training (PPT) is provided for 2 weeks in semester vacations which help them to gain confidence in the upcoming placements

The objective of PPT Training:

To bridges the gap between corporate requirements and student's knowledge and skillsets. To guide and provide right module of training that meets the industry needs and improve their employability skills.

The outcome of PPT Trainings

The ability to communicate effectively with co-workers, employers, clients and customers. The Training & Placement Cell of MIST strives hard to provide adequate training and finally place them in industry. The Cell ensures that all our students are placed in reputed companies – both software & core, with handsome packages. The Placement cell along with the Training Department organizes sessions and workshops with industry experts that help the students get an insight into the demands and needs of the market. Top Recruiters like Amazon, TechMahindra, Paytm, Value Labs, CtrlS, Virtusa, TCS, etc. have visited our campus for selecting candidates.

File Description	Document
Upload any 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 and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental

improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Response:

Teaching learning process

The institution reviews its teaching learning processes, structure and methodologies of operations and learning outcomes at periodic intervals. The Internal Quality Assurance Cell (IQAC) of the College takes proactive measures in enhancing the quality of the teaching-learning process across the departments. All the heads of the departments, deans and nominated teachers are members of the Institute Academic Committee and are chaired by the head, IQAC. At the end of every semester, IQAC conducts FDPs/Workshops/Seminars/Activities to adopt new pedagogies of engagement and to ensure continual improvement in the teaching-learning process.

Faculty are advised to make a presentation of any refereed Journal paper, to the rest of the faculty in the department in the presence of an external expert to become proficient in technical knowledge and research methodology.

Faculty are also advised to collect the previous year question papers of JNTUH and provide solutions to enable them to improve their knowledge as well as mid question paper setting pattern.

The IQAC Supports the activity by involving various departments of the institute, and audits the departments as a calendar activity every semester. IQAC also conducts an External Audit for the Academic as well administrative aspects.

Moreover, IQAC proposes to the management to send the faculty to engineering education conferences, workshops, seminars and certification programmes, etc.

Structures & Methodologies of operations

All the faculty members prepare an academic plan well in advance before the commencement of class work for the courses. Every faculty member maintains course file for each course being taught. The class coordinator meetings are held with students to know the progress of course coverage, pedagogy practices and efficacy of the teaching learning process and class coordinator periodically reports to the HOD about the syllabus coverage and the number of classes taken by the faculty.

The Lecture record of all the faculty members is reviewed monthly to ensure uniform coverage of syllabus as per Lesson Plan. The internal question papers are audited regularly in the department. Course end feedback is collected from all the students on the content, coverage and evaluation of answer scripts for each course.

Learning - Outcome

The institute switched over to outcome based education and prepared course outcomes, program outcomes and program specific outcomes for all the programs. The programs got accredited under outcome based approach. Attainment calculations are made for each course at the end of the semester and in turn the Program Outcomes are mapped and evaluated. These assessments are useful for offering the course with necessary improvements as required for the next semester.

Two examples of institutional reviews and implementation of teaching-learning reforms initiated by the IQAC

1. Course Files

Course files or planning documents of every course are used to bring objectivity and strategize the course of teaching and learning for every topic. The Faculty go through the syllabus and ensure that all the students fulfill the pre-requisites of the course. Upon cross-checking pre-requisites the faculty starts their event schedule that they plan at the beginning of the year. A proper plan for each topic and its delivery is made by the Faculty. The mapping of the course outcome is done along with the program outcome. Course files have proven to be great guiding tools that provide the faculty direction and a sense of clarity while teaching.

1. Students Feedback on Faculty, Teaching-Learning Process & Evaluation

There are two different forms of feedback, verbal feedback, and summative feedback. Verbal feedback is acknowledged given at the beginning and/or throughout the course, used to instruct your teaching and allow you to make appropriate alterations along the way. A “continuous Improvement philosophy” is recommended with verbal feedback.

Students’ feedback significantly showcases the actual quality of the teaching-learning process.

The IQAC has brought several changes in the Students feedback process like

No faculty members will be involved in the students’ feedback process.

Only students having attendance above 60% will be allowed to give feedback on faculty, teaching learning process & Evaluation.

File Description	Document
Upload any additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed

and used for improvements

2. Collaborative quality initiatives with other institution(s)

3. Participation in NIRF

4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Response: A. All of the above

File Description	Document
Upload e-copies of the accreditations and certifications	View Document
Upload details of Quality assurance initiatives of the institution	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

The institution has initiated to follow several measures in gender equity and sensitization in curriculum introduced by JNTUH: The course on “Gender Sensitization (An Activity-based Course)” is introduced by the affiliating university JNTUH in 2015-16 as a compulsory foundation course for II year II semester in B.Tech. The course has two credits and treated as a Lab Subject., from this the Outcomes of the Course are: Students are sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This is achieved through discussion of materials from research, facts, everyday life, literature and film.

Mahaveer Institute of science and Technology especially emphasizes on gender issues in the campus and promotes gender equity programs to encourage girls and lady faculty of the college aimed at achieving gender equity. The college focuses on measures and organizing awareness programmes for eliminating gender and sexual harassment. The Women faculty and girls are encouraged to participate in programmes, campaigns various activities like Cultural events, NSS, Sports, training sessions etc., as listed below.

1. **International Women’s day celebrations on March 8th 2019 in Jalpally village, municipal office with DWCRA Mahila groups with NSS volunteers.**
2. **Awareness programme on women’s safety conducted by Mrs. Shikha Goel, ACP Hyderabad on 29-09-2019**
3. **Seminar on be fit and being healthy for women.**
4. **Miss Mahaveer competition.**
5. **Rangoli Competition For Girl Students**
6. **Bathukamma Celebrations**

Safety and Security Measures:

The institution provides safety and security facilities for the staffs and students such as CCTV Surveillance throughout the campus and security arrangement. Students are allowed only when id card is shown. Constitutional Committees like Anti-ragging committee, Grievance Redressal Committee, Women Grievance & Redressal Committee are constituted as per the guidelines and there have been functioning actively to ensure the safety and security of the students. In the campus, CCTV cameras are installed at different locations to ensure the Safety and Security of the students.

Do’s and Don’ts sign boards are displayed in the Laboratory and students are briefed on the safety precautions too. In all Industrial visits, excursions, study tours Women Faculty accompany the girl students and take care of them very affectionately. Students are counseled on stress and anger management.

Sanitary Napkin Burners are installed in Girls Washroom for safe disposal of Sanitary Napkins.

Counseling System:

The institution has a dedicated Counseling Centre and good mentoring system for the students to take care of their academic, emotional, social and cognitive development. The girls are encouraged through counseling to participate in various activities like Cultural events, NSS, Sports, training sessions etc., as per their interest and comfort.. The Women Grievance and Redressal cell conducts many programs to encourage and boost the confidence of the girl students.

Common Rooms:

There are separate washroom facilities for girls and boys. Washrooms are provided with sanitary napkin vending and disposal machine for the safe and hygienic disposal of sanitary napkins

Baby Day Care Centre:

The institution, MIST has MOU with BLOOMING BUDS BABY CARE CENTRE for taking care faculty member's young children.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Link for annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

- 1.Solar energy
- 2.Biogas plant
- 3.Wheeling to the Grid
- 4.Sensor-based energy conservation
- 5.Use of LED bulbs/ power efficient equipment

Response: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of

degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

The college has taken up various initiatives for collection of waste such paper, food waste and e waste on regular basis as and when they are generated and stored at designated areas and disposed safely with the help of external certified agencies. The institute has an MOU with Urban **Rebox pvt ltd** for effective waste management (recycle, upcycle of e-waste, plastic and solid waste). The institute has installed biogas plant for utilization of food and vegetable waste.

Solid Waste Management: MISTs key operations have very less impact on the environment degradation. The college is very conscious of generating less waste and recycling it by passing it through a system that enables the used material to be reused ensuring that less natural resources are consumed. MIST have an MOU with ITC franchisee URBAN REBOX IT PVT Ltd for promoting zero waste management (recycle, upcycle of e-waste, plastic and solid waste). The waste is generated by all sorts of routine activities carried out in the College that includes paper, plastics, glass, metals, foods, etc. The waste is segregated at each level and source. The administrative supervisor in each block ensures that the waste in each floor is collected at designated time intervals. The waste collection bins are provided for each block and waste is collected on daily basis and is taken to the dumping yard provided by the college. From kitchen, food waste and vegetables waste and fruit waste from fruit juice point are used for generation of gas in Bio gas plant located at college canteen. The slurry produced by biogas plant is used as organic manure for plants. Sanitary napkin burners are installed in girls toilets for safe disposal of sanitary napkins.

Liquid Waste Management & Waste water recycling: In the back yard of campus MIST is having sewage treatment plant for liquid waste management. It has proven very effective in the removal of contaminants from water by destabilizing and electro coagulating suspended organic and inorganic in sewage. Periodic check-up of plumbing lines is undertaken to ensure minimal loss of water due to leakage. Effective reuse of waste water from RO plant is being used for irrigating the green areas. Recycled water is used for toilet flushing and gardening.

E-waste Management: Electronic equipment such as Computers, TV, Phones, Printers, Fax and Photocopy machines are recycled properly. Electronic goods are put to optimum use and the minor repairs are set right by the Laboratory Assistants; and the major repairs are taken up by the professional technicians and then reused. UPS Batteries are recharged and repaired by the suppliers. Mahaveer Institute of Science & Technology (MIST) and ITC franchisee URBAN REBOX IT PVT Ltd joined hands together towards zero waste management through recycle and up cycle.

Hazardous chemicals and radioactive waste management: Hazardous Chemicals are kept separately well labeled in the store room away from the reach of students. The hazardous chemical waste is properly treated before it is allowed to go into the drains. There is no use of any radioactive substance in the campus.

Biomedical waste management: The institute is not involved in handling of microbes or clinical samples directly hence biomedical waste is not generated.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Divyangjan friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Response: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	View Document
Geotagged photographs / videos of the facilities	View Document
Details of the Software procured for providing the assistance	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

Mahaveer Institute of Science and Technology endorses ethical values, cultural values and show respect to tolerance, harmony and belongingness towards regional, linguistic and communal socio- economic diversities by promoting an inclusive environment in the campus.

- MIST celebrates Constitution day, Independence Day, Republic Day, National Voters' Day awareness programme every year. The college has organized events such as Gandhi Padha Yatra, , Youth festival, Vivekanda pushpanjali, unity day on the eve of sardar vallabhai patel's birth day, Awareness on Different Schemes of Prime Minister Swatch Bharath and Swatch pakwada, Bharathmatha ki Maha Harathi.
- **Sponsoring Tribal Child Education** : As part of **BE GOOD DO GOOD** programme, our college taken initiative to sponsoring tribal child education which is working in remotest tribal hamlets promoting education through single teacher school with association of friends of tribal society in the year 2018.
- **Rakshbandhan with soliders in artillery center:** These programs create a feeling of patriotism among the people and remind the responsibilities towards our country and supreme sacrifices made by the army.
- **Interstate youth exchange programme:**

This is a Interstate youth exchange programme between Telangana and Andhara Pradesh organized by NSS cell JNTUH at Siddhartha Institute of engineering and technology on 02-06-2018 to 16-06-18. The purpose of this programme is to promote brother hood among the students of two states.

- Various religious festivals are celebrated in the campus such as Bathukamma, dushera, Diwali etc. MIST organized Massive Ganesh Bucket Immersion Awareness program to encourage the students and faculty members on usage of clay Ganesha idols to save environment. Bathukamma Festival - the Festival of flowers is organized in the college to showcase the talent and promoting Telangana culture. It reflects the history of women in leading a nature friendly life and resisting the oppression from various dimensions.
- **Flood relief operations in Kerala:** NSS unit of MIST went to kerala and took up massive flood

relief operations. Food, clothes and medicines were distributed to the flood victims by NSS unit of MIST. This shows the commitment and tolerance of MIST towards promoting regional and linguistic harmony.

- **Traditional day celebrations were conducted at campus:**

This programme was organized at MIST was presided by **Sri Dr. K.S.S.S.N Reddy garu, Principal and attended by Sri S.Surendar Reddy garu Secretary, Sri S.Dhanunjay Reddy garu Joint Secretary** to expand our tradition to the young generations. Women Empowerment & Anti-sexual Harassment Committees of the college besides addressing the problems associated with the girl students organize various activities for safe-guarding SHE issues. International women's day is celebrated every year.

Seminar on be fit and being healthy for women was conducted and Women safety programme was organized in the college and The guest of this program was **Shikha Goel IPS Addl. CP Crimes and SIT** and she gave valuable suggestions to the girls students and All lady faculty members regarding Safety and Security. Anti-Sexual Harassment Committee conducted programmes to educate MISTIANs about the Gender sensitivity issues and also addressed about the roles, opportunities and measures for both the boys and girls.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Link for any other relevant information	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

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

National Voters Day: National Voter Day is celebrated on 25 January is celebrated to spread awareness among the young voters regarding effective participation in the electoral process and infusion of democratic values among the students.

Volunteering At TS Assembly Elections: With an objective to enhance participation of persons with disabilities in the Electoral process, 40 student volunteers of NSS volunteers along with some faculty of MIST helped disabled persons to vote at various polling stations during TS assembly elections on 7/12/2018.

Blood Donation Camp: NSS unit of MIST in Association with various trusts organized "Blood Donation Camp" on every year In MIST campus and outside. In this event, teaching, non-teaching staff

members and students have donated blood.

Tribal child education: As part of Be Good Do Good programme institute has taken an initiative for sponsoring tribal child education

Flood relief camp in Kerala: NSS unit of MIST have taken up flood relief work in Kerala for one week.

Anti plastic and waste management Awareness programme :

As part of Swatch Bharath Mission, Awareness on dry and wet waste segregation, discouraging use of plastic was done in Durganagar and sriramnagar colonies near by mahaveer college.

Aids Awareness programme :

This program conducted on December 1st organized by NSS cell. This program was conducted to provide the awareness on HIV prevention, treatment and support activities, like marathon, rally etc.

Kill Cancer Programme & Tobacco Free Pledge day:

In association with ISKCON, NSS unit of MIST organized elocution and went around the class rooms and made students to take no tobacco pledge on 31st day which is no tobacco day.

Eco Friendly Ganesh Campaign: On the occasion of **Ganesh Chaturthi** to save the environment, our college NSS volunteers organized this program at MIST college campus on before day of Ganesh Chaturthi, ganesh idols were distributed to students and faculty members to celebrate Eco Friendly Ganesh Chaturthi.

Swatch Bharath and Swatch pakwada

This program was organized by **NSS cell MIST**, to attain **Swachhta** within and outside the campus, all the departments of Mahaveer students have participated along with the NSS cell the students gave some **swachhta slogans** also like clean nation – clean us , cleanliness from inside and outside, health automatically will reside both sides, Go clean Go Green etc.

Haritha haram programme:

This programme was conducted at Mahaveer Institute of science and Technology, Hyderabad on 3/10/2018 organized by **NSS cell MIST** students were participated and they shown very interest for plantation on the college campus for greenery of the college.

Awareness programme on traffic rules:

This programme was organized by NSS unit cell MIST at MIST campus on 5th march 2020. Charminar traffic police spread awareness among the students about traffic rules and regulations, road safety measures.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

- 1.The Code of Conduct is displayed on the website**
- 2. There is a committee to monitor adherence to the Code of Conduct**
- 3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
- 4. Annual awareness programmes on Code of Conduct are organized**

Response: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Every year MIST organizes several national commemorative days, festivals and birth/death anniversaries of the great Indian personalities such as:

Rashtriya Ekta Diwas (Unity Day): According to the instructions given by UGC regarding celebrations of Birth anniversary of Sardar Vallabhai Patel on 31st October, Rashtriya Ekta Diwas as a National Unity Day is organized by NSS Cell MIST at Mahaveer Institute of Science & Technology.

Swami Vivekananda Pushpanjali: This Programme is being conducted to motivate students and get inspired by great personalities of our Nation.

Gandhi Jayanthi: As a part of 150 Birth Anniversary of Mahatma Gandhi our college NSS unit conducted rally on Oct 2nd to create awareness on Gandhiji ambitious Independence Day from MIST campus to Mailardevpally nearly 100 students participated in this rally along with NSS program officer

Dr.M.Vasantha Lakshmi.

Women'sday Celebrations : This program is organized by our college on 8th March of every year. This emphasizes on women's rights movement and brings attention to several issues such as gender equality and violence and abuses against women.

International YogaDay: Every year International Yoga Day celebrated on 21st June in Mahaveer Institute of Science & Technology for students, faculty and their family members. Yoga is an invaluable gift of India's ancient tradition which embodies unity of mind and body.

Republic Day: On the occasion of Republic Day celebrations at MIST campus, NSS Unit will parade and College Management will be hoisting the Flag and distributing the certificates. This is a special day on which country marks and celebrates its reconstitution that came into effect on 26th January 1950..

Bathukamma celebrations : This program was conducted at INDIRA Park Hyderabad by NSS Unit MIST on 3rd October 2019. The guest of this program was Sri Bandaru Dathathreyagaru Governor of Himachal Pradesh, the theme of this program was to spread our traditional festivals to the youth, nearly 50 members of our college girl students have participated in this celebrations along with NSS program officer Dr.MVasantha Lakshmi garu.

National voters Day: This programme was organized by NSS volunteers MIST on 25th January the NSS students were conducted pledge on all the class rooms of MIST college campus to aware about voting and importance of a voter on National Voters Day celebrations and the theme of this programme was ***Vote for a better Nation***, and after that students were participated in the national voters day celebrations at ***Ravindra Bharathi***. The theme of this programme was ***Electoral literacy for stronger democracy*** organized by

Dr.G.Narsimha NSS programme coordinator JNTUH.

World AIDS day: This program was organized at Mahaveer Institute of Science and technology 1/12/2018 organized by NSS volunteers and program officer. This program was conducted to provide the awareness on HIV prevention, treatment and support activities, like marathon, rally etc. for this so many students participated from different branches of MIST.

No tobacco day: This programme was organized at ***MIST*** campus on the occasion of ***World No Tobacco day*** by the instructions given by State ***NSS Coordinator jntuh Dr.G Narsimha***, this Tobacco pledge was conducted in all the classrooms at MIST Campus, and students were committed to keep themselves desist from tobacco as a World No Tobacco day.

Various festivals are celebrated in the campus such as Ganesh Chaturthi, Pongal, Eid, Diwali Christmas etc.

Independence day: Every year independence day is celebrated on 15th of August.

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for any other relevant information	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

BEST PRACTICE 1:

Title: National Service Scheme(NSS) – Student responsibility towards environment and society.

Objectives:

- Engineering is one of the key aspects of our lives that has a great influence on our society and plays a key role in shaping it. This means that Engineers have a responsibility and also a great opportunity to exert positive influence on environment and society.
- The main objective is to mould our students as best citizens of the country and society in particular as drafted in the college mission- to inculcate moral values and human ethics in the students and also make them feel responsible towards nature, society with lifelong learning attitude.

Context:

- MIST encourages students to develop a sense of inclusiveness towards environment and society around them by making them socially responsible as qualified engineers. In order to achieve this, MIST encourages students to mitigate and solve problems and challenges faced by society related human, environmental, social and cultural issues

The Practice:

- MIST has deployed many practices through its NSS unit to enhance Societal empowerment among our students through various activities. The Institution has successfully framed the SES REC Action Plan and constituted ten working groups for improving facilities in the Campus and the Community/Adopted Villages in the areas of Sanitation & Hygiene, Waste Management, Water Management, Energy Conservation and Greenery post COVID-19, along with the observation of three environment, entrepreneurship and community engagement related days to inculcate in faculty, students and community, the practices of Mentoring, Social Responsibility, Swachhta and

Care for Environment and Resources.

- **“SHE” Programmes:** Women Empowerment & Anti-sexual Harassment Committee of the college besides addressing the problems associated with the girl students; organize various activities for safe-guarding SHE issues. The sole objective is to spread the awareness about the need to respect women as fellow members of the society and extend help in providing safety and security with engineering solution to cater to the needs of women.
- **Value Added Programmes:** Our institute hosts events which help the students to get global exposure and be the better speakers of the society on global concerned issues. These events had witnessed participants across different states which resulted positive calls of participation and showcased consensus on burning topics of the planet.

Beyond the campus environmental promotion activities:

MIST NSS volunteers have organized a number of environmental promotion activities like Swatch Sarvekshan, Swatch pakwada, Tree plantation programmes, anti plastic awareness, Malaria awareness programmes, flood relief camp etc. This shows the concern of the institute towards environment and society.

Social service and awareness programmes:

MIST NSS volunteers have taken up various social service and awareness programmes like blood donation camps, volunteering during elections, sponsoring tribal child education, anti tobacco campaign, free eye check up camps, AIDS awareness programmes etc. This show cases the commitment and social responsibility of the institute towards the society.

Celebration of national commemorative days and festivals, cultural events:

MIST celebrates republic day, Independence day, unity day, swami vivekananda birth day, Gandhi jayanthi, cultural events, youth festivals etc. The main objective of conducting these programmes is to inculcate moral, ethical and cultural values in the students and make them responsible citizens.

• Volunteering At TS Assembly Elections and enrolling young voters :

As per the instructions given by **Chief Electoral officer Election**, Election Commission Telangana state, The motto of the election commissions is **No voter to be left** behind has declared 2018 as the **Year of Accessible Election** with the objective to enhance participation of persons with disabilities in the Electoral process for this 40 members of NSS volunteers of Mahaveer Institute of science and technology participated on 7/12/2018 at various polling stations and they helped to disabled persons along with some faculty members. The **Chief Electoral Officer & Spl. Secretary to Government, Telangana** State directed the **State NSS Office** to undertake **Massive Awareness programme and Enroll the Young Voters** who attained 18 years and above age in all the junior/ Degree/professional Colleges/Universities on 09/2/2018.

As part of this programme the NSS cell of Mahaveer Institute of Science and Technology conducted this program from 9/2/2018 to 12/2/2018 including **31 students along with their NSS**

coordinator Dr.M Vasantha Lakshmi , in this program students took up complete Enrollment of new voters and created awareness among the students of our college , based on the instructions given by DEOs and concerned officials of the Districts by the CEO .

- **Swaccha Pakwada At University Level**

- This is a **Swachh Pakhwada Workshop** on 16/9/2018 which includes the topics like Swachh Bharat Abhiyan , cleanliness , waste management , kitchen gardens , segregation of wastage at JNTUH organized by **NSS unit cell JNTUH** , the NSS volunteers of Mahaveer Institute of Science and technology along with their NSS program officer Dr.M vasanthalakshmi were participated after completion of this workshop students were also participated in the swachhta program at JNTU Hyderabad.

- **Swatch sarvekshan:**

This programme was organized by **NSS Unit** of Mahaveer Institute of Science and Technology with the help of **Rajendra Nagar Municipality** on 20/01/2018 lakshmi Guda, Durga Nagar colony. In Swatch Sarvekshan programme 90 members of II Yr mechanical students have participated in this programme and they did door to door survey on **Dry and WetWaste Segregation** and they gave **Awareness On Antiplastic Waste Management** under the guidance of **V.Bhaskar Zonal coordinator** and NSS coordinator **Dr.M.Vasantha Lakshmi**.

- **Sponsoring tribal child education:**

- **Sponsoring Tribal Child Education** as part of **BE GOOD DO GOOD** programme our college taken initiative to sponsoring tribal child education which is working in remotest tribal hamlets promoting education through single teacher school with association of friends of tribal society in the year 2018 we donated **Three Thousand Five Hundred And Ninety Nine Rupees** to this society, so we are thankful to members, students and faculty who donated generously. Collected amount was handed in the form of cash to **Sri .Srinivas garu** founder of friends of Tribal society at **RK math** on the occasion of **Subhas Chandra Bose jayanthi** on 23-01-2018

- **Plantation Programme:** Plantation program was conducted by ECE A & B students in the college campus as part of **Haritha Haram** and Environmental studies as a curriculum part of their syllabus they bought ornamental plants to increase the aesthetics of campus and they inspired other branches students and they were appreciated by management and faculty for their contribution towards green campus.

- **Blood Donation camp at police Commissionerate:**

- On **Martyrs Reform Week**, who had scarified their lives, Blood donation camp was organized, for this NSS Cell MIST took out 19 members of our college students to donated blood to **Dr. Ronald Ross Blood Bank** on 17th OCTOBER 2017 between 9.30AM to 2.00PM at **Police Commissionerate Cyberabad ,Gachowli** .

Mega Blood Donation Camp :

- This programme was organized by **NSS cell JNTUH with ISKCON**, conducted at **JNTUH** on 18th december 2019, for this 200 NSS student volunteers have participated from Mahaveer Institute Of Science And Technology along with NSS programme Officer Dr.M Vasantha lakshmi, the guest of this programme was **Dr. Tamlisai Soundara Rajan Garu Governor Of Telangana, Sri Jayesh Ranjan, IAS I/c Vice-Chancellor** and **Dr.NarsimhaNSS programme coordinator JNTUH**, students from nearly 100 colleges have participated in this programme and 20 MIST students have donated BLOOD.

- **Rakshbandhan with soliders in artillery center, Mehadipatnam :**

In this program *NSS girls* students have participated to tie the rakhi's to soliders in artillery center mehadipatnam along with NSS program officer **Dr.M Vasanthalakshmi**. Scores of girls tied rakhis to soldiers on the occasion of "**Raksha bandhan**", the soldiers expressed their views and happiness with those students for celebrating the festival with them.

- **Women Safety Programme:**

This programme was organized by *Vanitha Tv* at Mahaveer Institute of Science and Technolgy On 29/9/2019, The guest of this program was **Shikha Goel IPS Addl. CP Crimes and SIT**, Hyderabad. For this programme Our college Chairmen **Sri S.Jayalkshmi garu** NSS programme officer **Dr.M.Vasantha lakshmi** and all girls students teaching and non teaching women faculty have participated. Shikha madam gave valuable suggestions to the girls students and All lady faculty members regarding Safety and Security.

Anti plastic and waste management Awareness programme

Door to door Awareness given to almost 500 houses on *dry and wet waste segregation, plastic usage in Durganagar and sriramnagar colonies* near by mahaveer college. As part of Swatch Bharath Mission, Some corporate officers participated in this program to motivate the students about Anti plastic and waste management at sports complex katedan. After this, students did door to door survey . GHMC officers Srinivas, china, sharanamma have participated in this programme.

Kanti velugu programme(Eye check up camp):

This *Kanti Velugu(eye chekup)* program was a three days program conducted on 7-1-2019 and 9-1-2019 in MIST college auditorium with the help of *Telangana Govt* . Hospital Ghouse Nagar Bandlaguda organized by NSS unit MIST, nearly *500 members of students and faculties* has been checkup their eyes *spectacles and medicines has distributed to the needy people* and for good treatment for others has been suggested to other specialists. This program has been completed successfully under the chairperson **Sri S. Sudharshan Reddy garu**, Secretary and director **H.S.N Murthy garu**, principal **Dr. K.S.S.S.N Reddy garu**, and **Dr.M vasantha laxmi**.

Aids awareness programme:

This program was organized at Mahaveer Institute of Science and technology on 1/12/2018 organized by NSS volunteers and program officer. This program was conducted to provide the awareness on HIV prevention, treatment and support activities, like marathon, rally etc. for this so many students participated from different branches of MIST.

Evidence of Success:

- MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY is a Recognized Social Entrepreneurship, Swachhta & Rural Engagement Cell (SES REC) Institution. This recognition has been given keeping in view many social and environmental promotion activities taken up and organized by NSS unit of MIST.
- Certificate of recognition was granted TO MIST by Mahatma Gandhi national council of rural development, department of higher education, Ministry of education, Government of India for successfully for framing the SES REC action plan and constituted ten working groups for improving facilities in the campus and the community/adopted villages in areas of the sanitation & hygiene, waste management, water management, energy conservation and greenery post COVID 19 along with the observation of three environment, entrepreneurship and community engagement related days to inculcate in faculty, students and community, and the practice of mentoring, social responsibility, swachhta and care for environment and resources.
- Telangana state Governor Dr. Tamilsai Soundarya Rajan has facilitated and awarded MIST chairman of the college Sri. S. Surender Reddy in recognition of the various environmental promotion and social service activities such as Swach sarvekshan, Swachh pakwada, blood donation camps, haritaharam tree plantation programme, free eye check up camps, anti plastic and anti tobacco awareness programmes, voters awareness programmes, flood relief camps, AIDS awareness, women safety awareness, tribal child education sponsorship programmes organized by NSS unit of MIST.
- Appreciation letter given to the college by ISKCON, Hyderabad for passion and commitment shown by NSS unit of MIST for making the “kill cancer” awareness programme a success. It shows the commitment and passion of the institute for creating awareness about the causes and effects of cancer and discourage and detest the youth of the society from using and getting addicted to bad and harmful habit of smoking, chewing tobacco.
- Received appreciation letter from Seva Bharathi, Telangana for help and contribution made by MIST for the success of Swachh Bharath event.

NAAC

BEST PRACTICE 2:

Title: Add-on Certification Courses for comprehensive and all round development of students

Objectives :

To offer add-on specialized courses along with the B.Tech degree. These courses help students to gain state of the

NAAC

To impart students with comprehensive knowledge and skills that helps the students attain edge over the others at the time of placement drives and ob interviews

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To help the students of MIST to secure high profile jobs in reputed companies with

hand some packages. .

The context:

Industries today look for students with comprehensive skills apart from academic knowledge. Keeping in view the present market demands of industries, institute has designed suitable training programs as required by the industry in various departments to train our students. These add on courses enable our students to have edge over the others in the job interviews and recruitment drives.

The Practice:

MIST follows a diligent planning in conducting various add on courses apart from regular courses keeping in view the needs and demands of the contemporary industry. This will help to bridge the skills gap among students in the field of their engineering domain. It will create industry ready professionals to meet the problems in the real time with certification in add on courses in each branch of engineering.

The following training courses are conducted to the students by proper planning prior the academic start.

Advanced VLSI design, Internet of things (IOT), MATLAB Programming, Electrical Energy Management, PSPICE Programming, PLC Programming, MATCAD Programming, PYTHON Programming, Advanced Java and J2EE using eclipse, ANDROID, Application Development, ORACCLE, JAVA Applications, Web Application development using PHP & XML, Technical Training HTML, 3G graphics, Basic Web Designing, cloud computing, Angular JS, ORACLE ANDROID mobile applications, PC hardware and Networking, Presentation Skills, Writing Skills, Communication Skills, AUTOCAD, CATIA, ANSYS.

Evidence of success:

- After under going the add on courses there was marked improvement in the knowledge of our students in the areas soft skills, communication skills, Advanced VLSI design, MATLAB Programming, Electrical Energy Management, PSPICE Programming, PLC Programming, MATCAD Programming, PYTHON Programming, Advanced Java and J2EE using eclipse, ANDROID, Application Development, ORACCLE, JAVA Applications, Web Application development using PHP & XML, Technical Training HTML, 3G graphics, Basic Web Designing, cloud computing, Angular JS, ORACLE ANDROID mobile applications, PC hardware and Networking, Presentation Skills, Writing Skills, Communication Skills, AUTOCAD, CATIA,

ANSYS.

- As a result of improved knowledge of students in the areas mentioned above, our students had edge over the others during the job recruitment drives and a number of students got placed in reputed organizations like INFOSYS, WIPRO, TCS, COGNIZANT TECHNOLOGIES, ACCENTURE and others.
- Our final BTech Mechanical engineering students have used CATIA software for modeling and assembly and ANSYS software analysis for the main project titled "Design and fabrication of battery car", this project was completely done in house. Our students are able to identify the need and application of IOT in industries. They are able to design various equipment which makes the day to day life secure, easy and comfortable.

File Description	Document
Link for Best practices in the Institutional web site	View Document
Link for any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

MIST is a renowned technical institution nurturing technical competence to young engineers to perform the best among the global top rank institutes in the areas.

1. Excellence in mentoring
2. Exploration of knowledge through research

3.Exponent for Development of a rounded personality with global vision and Social Responsibility

Participation of MIST students in Co-curricular Activities (CCA) and Extra Curricular Activities (ECA) helps in building all rounded personality to strongly face the turbulent challenges in future by experiences and appreciations gained through these activities assist students during internships, field visit, industrial tour, career guidance, personal counseling, training are well structured through a mentoring training and placements cells. Student's participation in ECA/CCA is facilitated through professional bodies and student associations effectively.

The founders of Mahaveer Institute of Science and Technology(MIST) keeping in view the institutes vision, nurtures the dream by creating a congenial atmosphere and supporting infrastructural facilities for the all round excellence in education. In view of promoting the research activities and training for students MIST has conducted the following programs:

INTERNET OF THINGS

Students are trained in a wide range of IOT technologies and gain a chance to grab advanced knowledge on application development. Quality training is provided by professionals on various cutting edge technologies like cloud computing, AIML, ARD, VLSI, Embedded systems, Automotives, 3D printing, Geometrics, Solar Application and Computation civil engineering to enhance Research and development.

PROFESSIONAL BODIES

Faculty and students are very much functional in participating and involving in professional bodies like ISR, ISHRAE, MSAE, MASDF, FSIESRP, ISCA, SPE, MISTE, FISME, MASME, MIE, IE, QCF, ELTAI, ISTE, IAE, IETE for grooming professional core capacities.

RESEARCH AND DEVELOPMENT CELL

R&D cell of MIST promotes encourages research culture of faculty and students.

MOCK TEST FOR PLACEMENTS

To make the students industry ready we conduct mock test before the placements.

MEMORANDUM OF UNDERSTANDING (MOUS)

R&D cell maintains bilateral relationship with the industry. Y signing the MOU, the institute and the industry explore mutual support in their learning, hiring, and research requirement. It also helps to gain training for the students and faculty by the industrial experts and guidance for their project work.

SOFT SKILL AND APTITUDE DEVELOPMENT PROGRAMME

It is a course for enhancing employability and entrepreneurial abilities of students. The programme covers lectures, workshops, and demonstrations like personality development, interview skills and techniques, stress management, meditation, goal setting and time management, presentation skills, creative thinking,

quantitative aptitude and reasoning ability by experts to impart required skills.

WOMAN EMPOWERMENT CELL

MIST women empowerment cell aims to empower girl students and faculty enhance their understanding of issues related to woman and to make the campus a safe place for students and faculty and address the issues related to the welfare and equal opportunities for woman faculty, staff and students. MIST women cell conducts various awareness programs and welfare activities, seminars etc for facilitating woman empowerment.

- Strong local governance with technically qualified management.
- Awareness for students on various government schemes for state and centre are carried out
- Encouraging faculty for better quality research publication and funding.
- State of art infrastructure with well equipped labs.

1.

Few of the notable achievements made by faculty and students in their research and academics respectively as follows:

Dr. V.V. Pratibha Bharathi (Mechanical Engineering) Recognized by **Wall of Fame** as “**one of the top 50 women Educators in higher Education across India**” for the year 2019 by The Academic Council of uLektz on 31st March 2020, awarded **Preeminent Educator Award 2019**, by international Institute of Organized Research 12OR Awards 2019, received “**Bharat Vikas Award**” on the occasion of National seminar by Intellectual’s Social Responsibility at Bhubaneswar, Odisha On 1st December, 2018, received “**Bharat Ratna Dr A.P.J. Abdul Kalam Excellence Award**” from Lt Gen Krishna Mohan Seth, Former governor of Chattisgarh, Madhya Pradesh and Tripura at New Delhi on 29th September, 2018

Apart from academic achievements MIST highly motivates and encourages indoor and outdoor sports activities of the students. Sports competitions inculcate the positive challenges and sportsmanship among the students and prepare them for the life ahead. The Students are actively involved in tennis, volleyball, kho-kho, cricket, table tennis, boxing, weight lifting, kabbaddi, javelin throw etc and they have won many prizes for both indoor and outdoor sports both in district, state and national level.

File Description	Document
Link for appropriate web in the Institutional website	View Document
Link for any other relevant information	View Document

5. CONCLUSION

Additional Information :

MAHAVEER INSTITUTE OF SCIENCE AND TECHNOLOGY (MIST) prepares graduates for leadership roles in local, national, and global communities. MIST emphasizes meeting undergraduates' learning needs through innovative teaching, personalized advisement, and strong support for undergraduate research and active learning. We are proud of our historic Honor Code, representing our long-term commitment to building a strong engineering community.

Highlights

- NSS has organized five mega blood donation camps over the last five years.
- Each year for the last five years, the "Best NSS volunteer" award has been presented.
- The Mahatma Gandhi National Council of Rural Education, the Department of Education, the Ministry of Education, Government of India have designated the Institution as a Swachh & Rural Engagement Cell (SES REC).

Concluding Remarks :

Since its inception in 2001, with only eight undergraduate engineering branches and four postgraduate engineering courses, the Institution has grown in stature and promises to continue in its progressive mode of serving the state with Engineers of human values and knowledge.

Despite the vagaries of socio-political and economic upheavals, the institute's Vision and Mission remain unwavering. Continuous measures are in place to identify and assist slow, gifted, and advanced learners with effective counselling mechanisms. Moreover, the Management believes that the Institution's infrastructure and academic growth have met the expectations of NAAC, a UGC wing.

It includes classrooms, labs, staff rooms, e-classrooms, communication and skill labs, an office, a health center, a modern gym, alternate power sources, transportation and drinking water. It is surrounded by greenery and has eco-friendly features like rainwater harvesting, RO plant and energy-saving devices.

Hence, The Mahaveer Institute of Science & Technology, Hyderabad, deserves NAAC accreditation. This accreditation will be a historic milestone for its nation-building efforts through engineering education.