The Annual Quality Assurance Report (AQAR) of the IQAC
(For Affiliated/Constituent Colleges)

Part – A

Data of the Institution

1. Name of the Institution: Model Institute of Engineering and Technology

- Name of the Head of the institution: Prof. Ankur Gupta

- Designation: Director

- Does the institution function from own campus: Yes

- Phone no./Alternate Phone No: 0191-2623155

- Mobile No: 9797522100

- Registered-mail: ankurgupta@mietjammu.in

- Alternate e-mail: ankurg1@gmail.com

- Address   : Kot Bhalwal

- City/Town   : Jammu

- State/UT   : Jammu & Kashmir

- Pin Code   : 181122

2. Institutional Status:

- Affiliated /Constituent: Affiliated

- Type of Institution: Co-education/Men/Women: Co-education

- Location: Rural/Semi-urban/Urban: Rural

- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self-financing: UGC 2f, 12(B) and Self Financing
- Name of the IQAC Co-Ordinator: Ms. Ruksana Salathia

- Phone no.: 9697028064

- Alternate phone no.: 01912623155

- Mobile: 9622244777

- IQAC e-mail address: ruksana.adm@mietjammu.in

- Alternate email address: alviruksana@gmail.com

3. Website address: http://www.mietjammu.in\naac\aqar\2017-2018.pdf

Web-link of the AQAR: (Previous Academic Year):

4. Whether Academic Calendar prepared during the year? **Yes**

Weblink: www.mietjmu.in/academiccalendar2017-18

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	B	2.57	2012	5 Years
2nd	A	3.02	2017	5 Years

6. Date of Establishment of IQAC: 01/08/2012

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date	Number of participants/beneficiaries
Institutional Initiatives: 1. **Outcome Based Education:** All the departments have initiated a process to migrate towards Outcome Based Education from the traditional Objective Based Education. The following initiatives have been carried out to ensure smooth transition: a) A comprehensive training program was carried out for the faculty and heads of department. b) The Program Assessment and Quality Improvement Committees to monitor the quality at the program level have been set up at the Department level. c) Workshops were organized for	17th December 2018	150

Departments to finalize the mission and vision statement and Program Outcomes, Program Specific Outcomes and Program Educational Objectives of respective departments. d) Comprehensive course packs have been developed for the consumption of students e) A simplified tool kit has been developed in house to ease the process of attainment of course outcomes, program outcomes and program specific outcomes.		150
2. Performance Review Meetings a) Departmental level quarterly review meetings were conducted using quality analytics framework Performance Insight 360 (PI-360) to review the performance of all departments on five broader performance areas aligned with the requirement of NAAC and NBA	October 2018, Dec 2018& April 2019	
b) The academic & administrative audits were carried as per the standards of ISO 9001:2015. The audit report was shared for further improvement and follow up was done subsequently. c) Weekly meetings of Class representatives are being organized with Head of Departments to improve the attendance and overall results in the semester.		50
3. Accreditation Initiatives a) Computer Science and Engineering Department underwent NBA accreditation and received accreditation for duration of 3 years.	20th-21st April 2019	
b) Two more departments including School of Management and Electrical Engineering have started the preparation for undergoing NBA accreditation during this year. **4. Participation in Survey/Rankings** a) Participated in NIRF b) Atal Ranking of Institutions on Innovation Achievement		Entire College

c) Data Quest Magazine Ranking Framework d) All India Survey for Higher Education Institutions e) BT. MDRA B. SCHOOL RANKING 2019	17th Nov 2018 20th Dec 2018 4th April 2019 23rd Feb 2019 6th June 2019	

Faculty Initiatives:
 	
1. Faculty Monthly Reports: A new comprehensive faculty monthly report has been automated in Performance Insight 360 to provide detailed insights on the course and lab load distribution, ICT usage and type of ICT used and involvement of faculty in different activities in the institution.
2. 1X 1 Faculty review meetings were carried out to provide detailed feedback on the individual performance of the faculty members
 	
3. Faculty Development Program
 	
   a) In House: 75 faculty members participated in 14 technical training's and workshops organized within the institute.
   b) Outside Institute: 40 faculty members participated in 16 training's and workshops organized outside the state.
   c) Comprehensive Induction Program: A comprehensive faculty orientation program on the lines of AICTE handbook on Faulty Induction program was organized for the new inductees. The program comprised of imparting hands on training on teaching pedagogies, ICT enablement, Outcome based education and finally culminated with evaluation of classroom teaching.
4. Research Promotion
   a) Publications in International Journals and Conferences: 23 Research Papers were published in
	30th June 2019
	
	30th June 2019
	
	30th June 2019
	
	30th June 2019
	
	1st September 2018
	
	30th June 2019
		103
		
		75
		
		75
		
		40
		
		11
		
		32

International Journals and 9 Research Papers in International Conferences in this academic year **b)** Faculty have been encouraged and financially supported to attend Research Conferences Outside State.		
Student Initiatives: 1) 7-Day training on quantitative aptitude, logical reasoning, verbal and communication skills was carried out for the final year engineering students. 2) CoCubes National Aptitude tests for employment was conducted for the final year engineering students. 100% Job opportunities were generated through the portal	Sept 2018 & March 2019	360
Stakeholder Feedback a) The program exit surveys were carried out for all programs to understand the student's perception about the attainment of program outcomes and program specific outcomes b) The alumni and employer surveys were also carried out to take feedback on the curriculum, industry requirement and attainment of program outcomes and program specific outcomes c) Feedback of trainings, workshops, induction process and individual courses were also taken to further improve the quality of teaching and value-added programs	April 2019, Sept 2018 & Nov 2018	1650

8. Provide the list of funds by Central/ State Government-   No

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
CSE/Dr. Ankur Gupta	Smart City Nerve Center	AICTE	2019	10,72,000
MBA/ Dr. Parul Sharma & Dr. Parul Mahajan	Consultancy	Shri Mata Vaishno Devi Narayna Superspeciality Hospital	2019	1,50,000

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: Yes

10. No. of IQAC meetings held during the year: 1

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website: **Yes**

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? **No**

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

- ❖ NBA Accreditation was conducted for the department of Computer Science Engineering department and has been granted for a period of 3 years.
- ❖ Training's were organized for transformation from Objective based Education to Outcome Based education across all departments.
- ❖ Strategic Plans have been made for the institution and for few departments.
- ❖ Quantification of Stakeholder feedback was initiated through stakeholder satisfaction index.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
The IQAC Cell at MIET has created a Quality and Strategic Roadmap which acts as a guiding framework for all executive plans and policy decisions at MIET. For the academic year 2018-19, the following objectives were set: • NBA Accreditation for CSE • Faculty trained on Outcome Based Education. • To improve Quality of Faculty Development Programmes. • To start value added programmes.	 • NBA accreditation granted to Computer Science Engineering Department for a period of three years. • Training's were organized to shift all the faculty from Objective Based Education to Outcome Based Education. In total 105 faculty members have been successfully using it. • 75 faculty members participated in 14 technical training's and workshops organized within the institute. 40 faculty members participated in 16 training's and workshops organized outside the state. • Amazon Web Services (AWS Cloud Architect), Storage Administrator (Information Storage System, Cloud Information System & Big Data Analytics), IIT Bombay Certifications (Java, Python, C++, C, Advanced C, PHP My SQL), Non formal Sanskrit Education, such value added programs were conducted

	for overall 775 students.
• Improve quality of placements.	• 100% placements were achieved in Masters in Business Administration (MBA) & in B.E. 41% placements were done with a maximum package of 10 lakhs per annum.

14. Whether the AQAR was placed before statutory body?   Yes/No: Yes

Name of the statutory body: Management Committee Meeting   Date of meeting(s):5/02/2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?
Yes/No: **No**

16. Whether institutional data submitted to AISHE: Yes/No: Yes

Year: 2019   Date of Submission: 21/02/2019

17. Does the Institution have Management Information System?
Yes/No: **Yes**

The institution uses an ERP system to manage the day-to-day operations. MIET has also pioneered the use of an in-house developed quality analytics framework called Performance Insight-360, which is a first-of-its-kind software in academia. The framework provides in-depth insights and statistics on all aspects of individual, group and institutional performance. Thus, the institute uses ERP and advanced analytics to devise strategic interventions based on data. The completed modules are:
1. Student's Attendance: Daily, Weekly, Monthly and consolidated reports
2. Faculty Profile: Basic and Additional
3. Mentor allocation and Counseling
4. Course entry, Subject allocation and Time table
5. Students Profile
6. Result Analysis and Comparative Analysis
7. Online Feedback
8. Department event details entry
9. Auto mail generation
10. Students' Progress report generation
11. Payroll (HR department)
12. Accounts and billing

Part-B

CRITERION I -CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 Institution has the mechanism for well-planned curriculum delivery and documentation. Explain in 500 words

The institution has made a transition towards outcome-based education starting from this academic session. The curriculum delivery is ensured through the following mechanism:

1. The academic calendar is prepared at the beginning of the academic session which captures the important dates like start and end of the session, internal examination, lab tests, etc.
2. The faculty members are required to prepare a comprehensive course pack consisting of lecture plan, tutorial sheets, course outcomes, and its alignment with program outcomes, assignments and model test paper for the consumption of the students. The course packs are duly approved and are further uploaded to the Google classroom created for each course.
3. The students are continuously assessed and evaluated through assignments, tutorial sheets, classroom performance and internal assessment exams. The tests and assignments are mapped with the course outcomes.
4. The course level attainment levels and program outcome attainment levels are monitored annually for continuous improvement
5. Feedback and monitoring on curriculum delivery is done through a wide-variety of mechanisms such as regular formal meetings of class representatives with the Heads of Departments and Dean/Director Academics, "Tea with Director" programme, online feedback collected once a semester, classroom visits by leadership team, monthly reports of faculty etc.
6. A program level assessment and quality improvement committee has been constituted at each department level to oversee the overall quality initiatives of the department

Teaching Pedagogies

1. All the e-course material is uploaded to the Google classroom which is readily accessible round the clock for all students. Google classroom provides a real-time collaboration environment for the students and faculty to interact and share content in all the possible document and multi-media formats. Thus, student engagement extends beyond the classroom.
2. There is a defined mechanism to conduct remedial and enrichment programs. While remedial classes are typically conducted after the regular college hours, enrichment programs for instance value-added courses, special projects, guidance and mentoring etc. are inter-weaved throughout the semester for students.
3. The institution constantly strives to upgrade the infrastructure and procure resources for effective delivery of the curriculum such as LCD projectors, sound bars, wired/Wi-Fi internet access in classes, teacher training on ICT and regular monitoring and feedback mechanisms.
4. Besides, teachers provide a host of additional resources while taking students beyond the curriculum. The teacher's plan and design 10 to 20 percent of additional content beyond the curriculum for each subject so as to expose students to latest technical advancements. This additional content may be in the form of MooCs, NPTEL lectures, VLAB simulations or YouTube videos.
5. The institution is using Bloom's Taxonomy to impart quality learning objectives to the students. The teachers create assignments through the framework which helps in enhancing student's understanding of important concepts and ideas and enable them to meet the key course objectives.
6. Flipped classrooms, Project Based Learning, Hackathons/Projectathons are also used.

Curriculum Revision

1. All Heads of Departments at MIET actively participate in framing the curriculum, in their capacity as members of the Board of Studies for different disciplines. Detailed feedback is provided by the representatives from MIET after internal discussions.
2. The institution regularly upgrades the curriculum based upon the inputs received from the departmental Advisory Board and prepares a RSC Matrix (Research, Skills & Curriculum) which is embedded in all the semesters.

1.1.2 Certificate/ Diploma Courses introduced during the Academic year

Name of the Certificate Course	Name of the Certificate/ Diploma Courses	Date of introduction and duration	focus on employability/ entrepreneurship	Skill development
Amazon Web Services	AWS Cloud Architect	2018-19/4 months	Employability	Designing Cloud Architecture
Information Storage Management (6th Sem), Cloud Information Systems (7th Sem), Big Data Analytics (8th Sem)	ISM/Big Data	2006-2007	Employability	Storage Administrator
IIT Bombay Certifications	Certified courses on Programming Languages	2014-15/ 6 months	Employability	Java, Python, C++, C, Advanced C, PHP MY SQL
Non-Formal Sanskrit Education		2018-19	Employability	
NA	Diploma in Vocation (D.Voc) in Software Development	2019-20/3 years	Employability	Software Development

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme with Code	**Date of Introduction**	**Course with Code**	**Date of Introduction**
M.Tech	2019-20	Master of Technology in Computer Science	2019-20
B.Voc	2019-20	Bachelor of Vocation (B.Voc) in Software Development	2019-20

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the Academic year.

Name of Programmes adopting CBCS	**UG**	**PG**	Date of implementation of CBCS / Elective Course System	**UG**	**PG**
Master's in Business Administration	NA	Yes	2007	NA	Yes
Already adopted (mention the year) 2007					

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

	Certificate	Diploma Courses
No of Students	Factory Automation Lab by Mitsubishi (103 Students)	
	Information Storage Management (6th Sem), Cloud Information Systems (7th Sem) (60 Days) (, Big Data Analytics (8th Sem) (60 Students)	
	IIT Bombay (450)	
	Non-Formal Sanskrit Education (25 students)	

1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
Factory Automation	2018-19	60
Employability Skills (Competency Building Programme, Co Cubes and Training on aptitude and logical reasoning)	2016-17	550
Guidance and Counseling (PI-360 Orientation, Alumni Mentorship, Meet the Alumni Series, Interaction with Industry Experts, Faculty Mentoring)	2011-12	1200
Community Orientation (NSS activities, Adopt a Village)	2012-13	450

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
Computer Science &Engineering	90
Electronics & Communication Engineering	108
Information Technology Engineering	38
Electrical Engineering	60
Master's in Business Administration	40
Master's in Computer Application	44

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

- The feedback collection process is conducted online through Performance Insight 360 and Google Forms. The stakeholders are informed through emails and automated notifications to submit their valuable feedback. The collection process is secured, and identity of the stakeholder is not revealed. After the analysis of the feedback collected, an action taken report is made to address specific areas where

intervention is deemed necessary.
- • The feedback is shared with the teachers in a constructive manner so that further improvements can be achieved in the teaching process. Further, teacher feedback is solicited by the Director/Director Academics in his monthly meetings with the class representatives.
- • The Performance Insight 360 analytics framework is used to collect the stakeholder satisfaction survey. The software analyses the feedback using a weighted formula based on Likert scale. Thus, a Stakeholder Satisfaction Index (SSI) is generated and tracked. The SSI is further decomposed into aspects such as teaching and learning, infrastructure and support services, governance and leadership, brand perception and satisfaction etc. which also get their respective mean scores computed. This provides automated analysis of stakeholder satisfaction index allowing specific interventions to be designed. Question-wise analysis is also provided by the analytics framework.
- • The program exit surveys were carried out for all programs to understand the student's perception about the attainment of program outcomes and program specific outcomes.
- · Action taken reports are prepared for each aspect highlighted during the feedback.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Computer Science Engineering	120	Admissions are done centrally by Board of Professional Entrance Examination and University of Jammu	110
Electronics and Communication Engineering	120		61
Electrical Engineering	60		50
Information Technology Engineering	60		9
Civil Engineering	60		58
Master's in Business Administration	60		48
Master's in computer application	60		21

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG andPG Courses
2018-19	288	69	72	15	0

2.3 Teaching - Learning Process

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

Number of teachers on roll	Number of teachers using ICT *(LMS, e-Resources)*	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and technique

					s Used
87	87	Projectors, Laptops, Desk Tops, Internet	30	0	MooCs, NPTEL, VLabs, Google Classroom

2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

- Mentor- Mentees module have been introduced in PI 360. The process includes selecting mentees under each mentor which will automatically send E-Mail notifications to both Mentor & Mentees.
- Each faculty member is responsible for mentoring 15 students leading to greater student engagement. Mentoring is provided by designated mentors using well-defined mentoring checklists and analytics data. Twice in a semester the mentor is required to meet his/her mentee.
- The quality analytics software framework PI-360 provides automated guidance and counseling emails every quarter to each student. This includes a performance snapshot of the student and the relative performance of the student with respect to their peer group. This benchmarking of performance allows students to plan for improving their overall performance.
- Workshops, sessions and interaction with experts from the industry exposes students to career paths, sets expectations and aligns them with the needs of the industry.
- Centre for Research, Innovation & Entrepreneur Cell (CRIE) is established for the enrichment of curriculum.
- Placement and career counseling services are available to students through the Placement Cell/Committee. COCUBES and AMCAT test is conducted for all the final year students to determine their employability scores. Group discussions and interviews are carried out at departmental and committee level to prepare students for the interviews.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
1463	87	1:15

2.4 Teacher Profile and Quality				
2.4.1 Number of full-time teachers appointed during the year				
No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
Professors (11)	6	5	Nil	Nil
Associate Professors (22)	4	18	Nil	Nil
Assistant Professors (67)	91	NA	21	Nil

2.4.2 Honors and recognitions received by teachers
(received awards, recognition, fellowships at State, National, International level from Government, recognized bodies during the year)

Year of award	Name of full-time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Ankur Gupta	Professor	Patent Granted
2018	Ms. Mekhla Sharma	Assistant Professor	ISTE Best Teacher Award
2018	Ms. Meena Kohli	Assistant Professor	ISTE Best Teacher Award

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Computer Science Engineering	CSE	3rd Sem 4thSem 5th Sem 6thSem 7th Sem 8thSem	Odd Semesters- 23rd December 2018 Even Semesters – 5th June 2019	03-06-2019 15-10-2018 06-05-2019 19-09-2018 28-03-2019 30-07-2019
Electronics and Communication Engineering	ECE	3rd Sem 4thSem 5thSem 6thSem 7th Sem 8thSem	Odd Semesters- 23rd December 2018 Even Semesters – 5th June 2019	03-06-2019 15-10-2018 06-05-2019 19-09-2018 28-03-2019 Awaited
Electrical Engineering	EE	3rd Sem 4thSem 5th Sem 6thSem 7th Sem 8thSem	Odd Semesters- 23rd December 2018 Even Semesters – 5th June 2019	03-06-2019 15-10-2018 06-05-2019 19-09-2018 28-03-2019 Awaited
Information Technology Engineering	IT	3rd Sem 4thSem 5th Sem 6thSem 7th Sem 8thSem	Odd Semesters- 23rd December 2018 Even Semesters – 5th June 2019	03-06-2019 15-10-2018 06-05-2019 19-09-2018 28-03-2019 Awaited
Civil Engineering	CE	3rd Sem 4thSem 5th Sem	Odd Semesters- 23rd December 2018 Even Semesters – 5th June 2019	03-06-2019 15-10-2018 06-05-2019
Master's in Business Administration	MBA	1st Sem 2ndSem 3rd Sem 4thSem	Odd Semesters- 23rd December 2018 Even Semesters – 5th June 2019	13-05-2019 17-09-2018 Awaited Awaited
Master's in Computer Application	MCA	1st Sem 2ndSem 3rd Sem 4thSem 5th Sem 6thSem	Odd Semesters- 23rd December 2018 Even Semesters – 5th June 2019	11-06-2019 18-12-2018 25-06-2019 10-12-2018 11-06-2019 Awaited

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

Reforms in evaluation initiated by the college are as under:
- The institution is using Bloom's Taxonomy to design quality assignments & tests for students. The teachers create assignments through the framework which helps in enhancing student's understanding of important concepts and ideas and enable them to meet the key course objectives.
- A new post of Controller of Examination (COE) has been created to streamline the teaching-learning and evaluation process and ensuring effective implementation and monitoring.
- Dates of internal examinations are known to all the stake holders at the commencement of the semester.
- Setting of papers for internal tests are managed by COE who also moderates the papers if required, publishes examination schedule, nominates supervisory staff from other departments and provisions exams halls in such a way that tests are conducted in a fair manner.
- All papers are evaluated by table evaluation and moderated on spot for transparent evaluation and quick declaration of results.
- After evaluation, answer scripts are shown to all the students and their signatures obtained.
- The marks are entered in the ERP and made available to all stakeholders.
- Retests when necessary are also conducted in special cases and managed separately.

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

MIET follows the Academic Calendar formulated by the Planning and Academic Affairs Committee of the college which comprises the leadership team besides all HoDs and other academic/administrative officers. Academic Calendar is prepared well before commencement of a course and contains the following details for the complete semester:

• Date of commencement of a semester

• Date sheet for conduct of 1st and 2ndsessional tests

• Dates for conduct of practical tests

• Dates for display of marks obtained by student

ts in 1st and 2ndsessional tests

• Dates for displaying attendance status of students

• Tentative date of final examination

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes
for all programs offered by the institution are stated and displayed in website of the institution
www.mietjmu.in

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
ECE	Electronics and Communication Engineering	108	101	93.52%
CSE	Computer Science and Engineering	113	96	84.96%
IT	Information Technology	46	34	73.91%
EE	Electrical Engineering	63	55	87.3%
MCA	Masters in Computer	35	35	100%

	Application			
MBA	Masters in Business Administration	40	Results Awaited	100%

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire)

The Performance Insight 360 analytics framework is used to collect the stakeholder satisfaction survey. The software analyses the feedback using a weighted formula based on Likert scale. Thus, a Stakeholder Satisfaction Index (SSI) is generated and tracked. The SSI is further decomposed into aspects such as teaching and learning, infrastructure and support services, governance and leadership, brand perception and satisfaction etc. which also get their respective mean scores computed. This provides automated analysis of stakeholder satisfaction index allowing specific interventions to be designed. Question-wise analysis is also provided by the analytics framework.

The results are available on the link www.mietjmu.in/sss2018-19

CRITERION III –RESEARCH, INNOVATIONS AND EXTENSION

3.1 Resource Mobilization for Research

3.1.1 Research funds sanctioned and received from various agencies, industry and other organizations

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Major projects	3 years	AICTE	10,72,000	9,50,000
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	-	Shri Mata Vaishno Devi Narayna Superspeciality Hospital	150000	75000
Projects sponsored by the University/ College	-	-	-	-
Students Research Projects *(other than compulsory by the College)*	-	-	-	-
International Projects	-	-	-	-
Any other (Specify) Smart City Nerve Centre Research				
Total	0	0	12,22,000	10,25,000

3.2 Innovation Ecosystem

3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights **(IPR)** and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Name of the Dept.	Date(s)
ACM Webinar: Cognitive Technology Support	Computer Science & Engineering	07-06-2019
MHRD IIC Leadership Talk Series	Computer Science & Engineering	24-04-2019
NVIDIA DLI Hands-on Workshop on "Fundamentals of Deep Learning for Computer Vision"	Computer Science & Engineering	09-04-2019

Alumni Meet: Interacting Mentoring Session with Industry Experts	Computer Science & Engineering	04-04-2019
ACM Webinar: Machine Learning	Computer Science & Engineering	30-03-2019
MHRD IIC Leadership Talk Series	Computer Science & Engineering	19-03-2019
MHRD IIC Leadership Talk Series	Computer Science & Engineering	29-01-2019
Patenting & Intellectual Property Rights	Computer Science & Engineering	29-01-2019
MHRD IIC Leadership Talk Series	Computer Science & Engineering	15-01-2019
AWS Cloud Architect Associate Training	Computer Science & Engineering	01-07-2018

3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
GNOSIS	Arun Sharma Deepika Kumari	CSI Annual Awards	21-05-2019	Competit ion
To build a platform to connect startup and corporate	Tushaar Nagar, Kushagar Mahajan, Rohini Sharma, Mohit Sharma, Danish Soma, Tauseef Shah	AICTE-SMART India Hackthon	05-03-2019	National level
Monitoring & Control of Boiler Operation Management System for Process Industries	Himesh Jasrotia, Shubham Sharma, Ushmeesh Gupta Shivam Sharma	Mitsubishi Electric India	15-02-2019 to 16-02-2019	National Level
Advanced Message Sharing Application	Arun Sharma, Abhishek Sharma	Unisys Cloud 20_20	06-02-2019	National Level
Assignment Clash Management System Web App

Crazy Developers

Assignment Clash Management System Android App | Abhishek Baru, Zuha Atta, Akshita Sharma, Deepanshu Thankur

Pankaj Sharma, Mohit Sharma, Danish Soma, Vastvik Updavya

Avinash Koshal, Vivek Singh, Rohit Sharma, Parush Gupta | IIT Jammu | 24-03-2019 | Coding Hackathon |
| GNOSIS | Arun Sharma, Deepika Kumari | Unisys | 06-02-2019 | National Level |
| Smart Auditorium | Shubham Sharma, Kanav Sharma, Parul Gupta, MridulaVirdi, Kanish Kanotra, Taniya Gupta, Nipun Gupta | IIT Delhi | 02-11-2018 | Tinker Hack |

3.2.3 No. of Incubation Centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
-	-	-

Name of the Start-up	Nature of Start-up	Date of commencement
-	-	-

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

State	National	International

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

Name of the Department	No. of Ph. Ds Awarded
NA	NA

3.3.3 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National	NA	NA	NA
International	ECE	11	0.665
	CSE	3	0
	IT	0	0
	EE	0	0
	MCA	2	0
	MBA	5	0
	ASH	3	0.25
	Civil	1	0

3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
ECE	20
CSE	4
MCA	2
MBA	8
ASH	3

3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations
Design and Implementation of Bottle Filling Automation System for Food Processing Industries Using PLC	Mr. Rajinder Tiwari, Mr. Jamini Sharma	International Journal of Power Electronics Controllers and Converters	June 2019		Model Institute of Engineering & Technology	0

Performance Analysis of DNA Sequencing using Smith-Waterman Algorithm on FPGA	Mr. Rajinder Tiwari, Mr. Jamini Sharma	STM Journals (Division of Consortium eLearning Network Pvt. Ltd)	June 2019		Model Institute of Engineering & Technology	0
Consumers' Intention to use Mobile Wallets	Dr. Ankita Nanda	AIMS International, Association of Indian Management Scholars, India	May 2019		Model Institute of Engineering & Technology	0
Performance Evaluation of Counter Circuit for Reversible Alu using QCA And Verilog HDL	Mr. Rajinder Tiwari	Taylors University SDN BHD, Selangor, Malaysia	March 2019		Model Institute of Engineering & Technology	0
Rain Water Harvesting Potential of Block- B of MIET College	Mr. Sajad Ahmad, Mr. Manchand Singh	International Journal of Scientific and Technical Advancements	March 2019		Model Institute of Engineering & Technology	0
Text Mining with Machine Learning Algorithms: A Review	Ms. Akanksha	STEM International Scientific Online Media and Publishing House	March 2019		Model Institute of Engineering & Technology	0
Performance Analysis of A Universal Circuit for Reversible Alu Using QCA& CMOS Technology	Mr. Rajinder Tiwari	Science Publishing Corporation Inc, Qatar	January 2019		Model Institute of Engineering & Technology	0
Analysis of Current Transport Mechanisms in Sol-Gel Grown SI/ZNO Heterojunction Diodes in High Temperature Environment	Dr. Satyendra K Singh	Academic Press Ltd- Elsevier Science Ltd	January 2019		Model Institute of Engineering & Technology	0
Clean and Dry Route of Synthesis of C60/Polyvinylpyrr	Dr. Navdeep Bhullar, Dr. Archna Sharma	Springer, Switzerland	January 2019		Model Institute of Engineering & Technology	0

olidone Composite Using Supercritical Carbon Dioxide						
Developing Vibration-Based System Supplementing Peripheral Vision of Aircraft Pilots	Prof. Shiv Kumar Sharma	International Journal of Research and Analytic Reviews	January 2019		Model Institute of Engineering & Technology	0
Sustainable Approaches for Steroid Synthesis	Dr. Aman Mahajan	Environmental Chemistry Letters	December 2018		Model Institute of Engineering & Technology	0
Intercloud: A Hype or Reality?	Dr. Ankur Gupta	IJNGC	November 2018		Model Institute of Engineering & Technology	0
Emotional Branding: A New Way to Connect to Customers	Dr. Ankita Nanda	International Journal of Management Studies- UGC	October 2018		Model Institute of Engineering & Technology	0
Analysis and Performance of Cache Using Persisted Java Topics	Mr. Ankush Sharma, Mr. Vishal Gupta	International Journal of Computer Sciences and Engineering	October 2018		Model Institute of Engineering & Technology	0
Strengthening Technical Skills of School Children Using Single Board Computers	Prof. S. K. Sharma	RESEARCH REVIEW International Journal of Multidisciplinary	September 2018		Model Institute of Engineering & Technology	0
Performance Evaluation of Vanets for Evaluating Node Stability in Dynamic Scenarios	Ms. Sonakshi Gupta, Ms. Vani Malagar	International Journal of Computer Applications Technology and Research	September 2018		Model Institute of Engineering & Technology	0
Strategy to Make Vulnerable Hill Tourist Destinations Disaster Risk Resilient	Dr. Parul Sharma, Prof. S. K. Sharma	Research Review International Journal of Multidisciplinary	September 2018		Model Institute of Engineering & Technology	0
Composition and Evaluation of GLCM Parameters for Dermatological Image Analysis	Ms. Chaahat Gupta	International Journal of Artificial Intelligence	August 2018		Model Institute of Engineering & Technology	0

Revalidation of Organ's Organizational Citizenship Behavior Scale in Banking Sector	Dr. Parul Mahajan	AIMS International Journal of Management	August 2018		Model Institute of Engineering & Technology	0
Numerical Ranges of Normal Weighted Composition Operators on L2(N)	Prof. Bhajan Singh Komal	Rocky Mountain Mathematics Consortium, United States	August 2018		Model Institute of Engineering & Technology	0
Air Monitoring Device	Ms. Sonakshi Gupta	Fast track publications, India	July 2018		Model Institute of Engineering & Technology	0
Cashless and Digital India: A Move Towards Clean Economy	Dr. Ranju Katoch, Dr. Deeksha Singh	International Journal of Trend in Scientific Research and Development	July 2018		Model Institute of Engineering & Technology	0

3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science):

We are not able to understand the question as h-index is not calculated at the individual paper level. Hence it is not possible to provide the data in the format motioned below

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self-citations	Institutional affiliation as mentioned in the publication
Design and Implementation of Bottle Filling Automation System for Food Processing Industries Using PLC	Mr. Jamini Sharma	International Journal of Power Electronics Controllers and Con	June 2019	1		Model Institute of Engineering & Technology

		verte rs				
Performance Analysis of DNA Sequencing using Smith-Waterman Algorithm on FPGA	Mr. Jamini Sharma	STM Journals (Division of Consortium eLearning Network Pvt. Ltd)	June 2019	1		Model Institute of Engineering & Technology
Consumers' Intention to use Mobile Wallets	Dr. Ankita Nanda	AIMS International, Association of Indian Management Scholars, India	May 2019	1		Model Institute of Engineering & Technology
Analysis of Current Transport Mechanisms in Sol-Gel Grown SI/ZNO Heterojunction Diodes in High Temperature Environment	Dr. Satyendra K Singh	Academic Press Ltd-Elsevier Science Ltd	January 2019	4		Model Institute of Engineering & Technology
Sustainable Approaches for Steroid Synthesis	Dr. Aman Mahajan	Environmental Chemistry Letters	December 2018	11		Model Institute of Engineering & Technology
Intercloud: A Hype or Reality?	Dr. Ankur Gupta	IJNGC	November 2018	9		Model Institute of Engineering & Technology
Emotional Branding: A New Way to Connect to Customers	Dr. Ankita Nanda	International Journal of Management Studies-UGC	October 2018	1		Model Institute of Engineering & Technology
Strategy to Make Vulnerable Hill Tourist Destinations	Dr. Parul Sharma,	Research Review International Journal of	September 2018	5		Model Institute of Engineering & Technology

Disaster Risk Resilient		Multidisciplinary				
Composition and Evaluation of GLCM Parameters for Dermatological Image Analysis	Ms. Chaahat Gupta	International Journal of Artificial Intelligence	August 2018	2		Model Institute of Engineering & Technology
Numerical Ranges of Normal Weighted Composition Operators on L2(N)	Prof. Bhajan Singh Komal	Rocky Mountain Mathematics Consortium, United States	August 2018	7		Model Institute of Engineering & Technology

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year:

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops		10	24	45
Presented papers	9			
Resource Persons				

3.4 Extension Activities

3.4.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non-Government Organizations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co-ordinated such activities	Number of students participatedinsuchactivities
Swacch Campus Abhiyaan	NSS Unit MIET (Prayas)	10	250
"My Vote My Right" Sveep campaign by DC office, Jammu	Chief Election Officer	12	45
Middle School Windows Repairing and fixing of Acrylic Sheet in Winter	NSS Unit of MIET (Prayas)	10	Nil
Eye Checkup Camp	Red Cross Society	8	15
Flood relief for Kerala (Total Rs.60,000 amount	NSS Unit of MIET (Prayas)	10	1200

was collected and handed over to Indian Red Cross Society to be donated at Kerala Chief Minister's Relief Fund)			
Renovation of Toilets for adopted village (Amb)	NSS Unit MIET (Prayas)	8	25
Blood Donation Camp	Red Cross Society, Mahindra Finance, Thalassemia Society	8	200
Installation of Computers at Amb Village adopted by MIET	NSS Unit of MIET (Prayas)	10	40

3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students Benefited
NA	NA	NA	NA

3.4.3 Students participating in extension activities with Government Organizations, Non-Government Organizations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organizing unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
NA	NA	NA	NA	NA

3.5 Collaborations

3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the Year

Nature of Activity	Participant	Source of financial support	Duration
LeadingIndiaAI	10	Free Internship	Summer Vacations

3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration	Participant
Project/Research facilities	SCL, Mohali	SCL, Mohali	August 2017 onwards	50 students and 4 faculty members
Bennett University	LeadingIndia AI	Greater Noida, UP	June 2018 onwards	4 students and 6 Faculty members

3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year			
Organization	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
UIPath	20-05-2019	To grow the RPA knowledge ecosystem in J&K. This linkage will strengthen the MIETs Capability in Robotics Process Automation.	300/50
Github	18-12-2018	Under the MoU, One Github Enterprise Unlimited Educational Use License and One Github Business Cloud Unlimited Educational Use License is offered to the Institute. Students could create unlimited private repositories in their account. Repositories are also used for maintaining final year projects.	400/7
LeadingIndiaAI	15-06-2018	To create a plan for undertaking AI-related Research and Skilling initiatives.	4/6

CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
9000000	5288353

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	22000sqm	0
Class rooms	50	0
Laboratories	32	0
Seminar Halls	22	0
Classrooms with LCD facilities		0
Classrooms with Wi-Fi/ LAN		50
Seminar halls with ICT facilities		22
Video Centre		1
No. of important equipment's purchased (≥ 1-0 lakh) during the current year.		81
Value of the equipment purchased during the year (Rs. in Lakhs)		Rs. 35,91,759
Others		Rs. 30,98,452

4.2 Library as a Learning Resource

4.2.1 Library is automated {Integrated Library Management System -ILMS}			
Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
TLSS	Fully	NA	2005

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	26923	Rs.77,95,558/-	416	Rs.1,41,486/-	27339	Rs.79,37,044/-
Reference Books	7152	2044590	142	48280	7294	2092870
e-Books	10,000 (DELNET) & 41,86,185 (WEL) 7 million eBooks (NDL)	Rs. 13,570/- & Rs.1,00,300/- Free	10,000 (DELNET) & 41,86,185 (WEL) 7 million eBooks (NDL)	Rs. 13,570/- & Rs.1,00,300/- Free	10,000 (DELNET) & 41,86,185 (WEL) 7 million eBooks (NDL)	Rs. 13,570/- & Rs.1,00,300/- Free
Journals	64	Rs.2,46,505/-	04	-		
e-Journals	183+Back files to 2005 (R.S. 2018)	Rs.5,45,433/- (Annual Subscription)			193	Rs.7,31,034/- (Annual Subscription)
Digital Database	TLSS → Total Lib Software System					
CD & Video	1737	-	34	-	1771	-
Library automation	Fully Automated Library					
Weeding (Hard & ;2Soft)	Hard copies of Back-volumes of Magazines	630 copies of 17 Titles has been weeded				
Others (specify)	2710	-	140	-	2850	-

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centers	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existing	599	13	50	2	0	6	7		0

E-Waste	48								
Added	54	1		0	0	0	0		0
Total	605	14	50	0	0	6	7		0

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

<div align="center">102MBPS</div>

4.3.3 Facility for e-content

No, the college does not have facility for the development of e-content, but runs cloud-based course for the students and staff through MooCs, NPTEL etc. The same is shared and made available to the students on Google Classroom for future reference.

Name of the e-content development facility	Provide the link of the videos and media center and recording facility
-	-

4.3.4 E-content developed by teachers such as: e-PG-Path Shala, CEC (under e-PG-Path Shala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc.

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
-	-	-	-

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of Academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
50000000	21663697	50000000	19583493

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. *(maximum 500 words)* (information to be available in institutional Website, provide link)

Physical facilities

The physical facilities including Laboratories, Classrooms and Computers etc. are made available for the students those who are admitted in the college. The maintenance of these facilities is done as per the following guidelines:

☐ Regular administrative check of systems after every 15 days

☐ All systems are updated with antivirus software package Microsoft Security Essentials

☐ Each lab is managed and monitored on daily basis by the designated Lab Assistants with the support of centralized IT Cell

☐ All labs are provisioned with power back up through online/offline UPS

☐ The labs are upgraded on regular basis with new software packages and system up-gradation. Two labs were fully upgraded with new systems of higher configuration.

☐ The old systems are further disposed responsibly as e-waste through certified e-waste vendors

☐ The Lab Manuals are designed keeping in line with the requirements of the practical's and are distributed among all students for each lab.

☐ The department has access to licensed operating systems and MS Office suite from Microsoft in addition to the other software packages like Oracle, Turbo C etc.

☐ Annual internal audits are carried out by IQAC

☐ Fire extinguishers are provided as part of safety equipment

☐ High speed gigabit internet is used to connect the labs to the central fiber-optic backbone.

The classrooms boards and furniture facilities are utilized regularly by the students the maintenance and the cleaning of the classrooms and the laboratories are done with the efforts of the non-teaching staff.

The college has adequate number of the computers with internet connections and the utility software's distributed in different locales like office, laboratories, library, departments etc. The library is also provided LAN facility for the computers and they are loaded with the library software.

Academic and Support Facilities The academic support facilities like library, the sports and the other platforms supporting overall development of the students like NSS or Competitive examination cell etc. is open to the college students.

The sport department of the college is consisting of the Indoor Hall, cricket ground, basketball court. The maintenance is being taken care by the Institutional staff.

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support

5.1.1 Scholarships and Financial Support

	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	Tuition Fee Waiver	19	912000
	Sh. H. L. Gupta & Smt. Shanti Gupta	5	50000
Financial support from other sources			
a) National	Mahindra & Mahindra Financial Services Limited (MMFSL)	5	125000
	Ministry of Minority Affairs	4	100000
	Ministry of Tribal Affairs	18 (Applied, not yet received)	
b) International			

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Classes	2 times in each semester	195	MIET
Soft Skill Development (Competency Building Programme)	September-November	120	
Language Lab		290 all the 1st year students	MIET
Mentoring	2 times in each semester	1463 (All the students)	MIET

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2018	CAT, GRE, GMAT, IELTS & TOFEL	40	55	48	86

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
5	5	1-2 weeks

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Practo	45	5	HDFC Bank	20	10
Itenic Technologies	120	44	Cognizant Technologies	40	3
Manhattan Associates	48	5	Apollo Munich	2	2
Tech Mahindra	120	29	TCS	13	1
BYJU's	45	5			
Aricent Technologies	55	9			

ICICI Bank	12	12			
ICICI Prudential Life Insurance	15	9			
Future Retail Ltd.	19	8			

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018	3	Engineering & Technology	Electronics & Communication Engineering	IBS, Kota, Punjab University	MBA & M. Tech
2018	15	Engineering & Technology	Computer Science & Engineering	University of Jammu,Central University, Chandigarh University, Symbiosis, NISM, Mumbai, Arizona State University, Auckland University, Illinois Institute of Technology	M.Tech, MBA, PGDBM, MS, Ph.D
2018	4	Engineering & Technology	Information Technology	University of Jammu, Central University	MBA & M.Tech
2018	3	Engineering & Technology	Electrical Engineering	Shri Mata Vaishno Devi University, IIT Indore	M. Tech & M. Sc (Astronomy)

5.2.3Students qualifying in state/ national/ international level examinations during the year (e.g.: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services):

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	-	
SET	-	
SLET	-	
GATE	22	
GMAT	-	
CAT	10	
GRE	2	
TOFEL	2	

Civil Services	-	
State Government Services	-	
Any Other		

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

Activity	Level	Participants
Sammilan Techno-Cultural Fest	National	1500
MIET Open Chess Championship	Inter-College	120
MIET Open Table Tennis Championship	Inter-College	80

5.3 Student Participation and Activities

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

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2018	Silver Medal	International	Aain Ball			Afaq Nizam Khan
2018	Gold	State	Judo			Virbhadra Singh
2018	Bronze	State	Shooting			Aastha

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

The following are the methods of Students Counseling followed every year:
1. Orientation Programme: On the day admission orientation programme is organized by the
2. college for all the first-year students. There will be address by Director, Director Academics and Heads of various B.E courses. This is followed by showing them a documentary film on the Institution and taking them for a campus tour.
3. One-week orientation programme: With the guidelines issued by AICTE recently, a one-week special induction programme has been organized for the first-year students of 2018-19. Programmes in the areas of Culture, Behavioral aspects, Zumba, Sports and games, Personality development were scheduled continuously for a week. Special sessions were arranged for senior students to interact with first year students. This has resulted in very good beginning for the first-year students.
4. Mentoring: The college adopts mentor/ tutor system to look after the learning capabilities of students Individually:
    a. For 15 students, one faculty is assigned as mentor
    b. Mentor continuously track the mentee attendance details and academic performance
    c. Mentor will assist mentee in selecting professional electives and career guidance
    d. Mentor will track the mentee sports activities, extra-curricular and co-curricular activities
5. Placement cell: Placement cell of college organizes number of activities for the pre final year students to be ready for placement interviews. These involve skill development, personality development, attitude, body language etc. All these programmes have resulted in many students are getting placed by companies.
6. The Institute does not have a Student Council in existence. However, there are 15 committees in the college which look after various academic and non-academic aspects headed by faculty and in some cases have student members as well. These committees focus their attention on one specific process/functional area of the college, plan activities and ensure its implementation. They keep meeting periodically and take

suitable decisions for effective implementation. List of the committees are given below:

☐ Planning and Academic Affairs

☐ Research, Project Development & Publications

☐ Quality Assurance

☐ Internal Assessment

☐ Disciplinary

☐ Professional Development & Training & Value-Added Courses

☐ Student Support Services & Amenities

☐ Grievance Redressal

☐ Sports & Games

☐ Maintenance House Keeping & Hospitality ;2

☐ NSS, Extension & Outreach

☐ Sexual Harassment

☐ Cultural & Co. Curricular

☐ Placement, Alumni & Guidance Counselling

☐ Anti SC-ST Harassment

☐ Anti Ragging

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):

No

5.3.2 No. of ~~registered~~ enrolled Alumni:

NA

5.3.3 Alumni contribution during the year (in Rupees):

NA

5.3.4 Meetings/activities organized by Alumni Association:

NA

CRITERION VI -GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Yes, the college has always promoted decentralization and participative management as a form of democratic governance as it believes it would result in creating an ambience favorable for overall growth of the institute. This is achieved by encouraging faculty, staff and students to contribute through participation at various levels and forums such as:

• The Planning and Academic Affairs committee formulates all execution-related and operational plans for the institution. This committee comprises all Heads of Departments besides the leadership team and senior faculty members.

• Fifteen Committees overseeing different operational aspects of the institute functioning are the best example of participative management in action. At any given point in time almost 90% of the faculty and support staff is involved in at least one committee. These committees define their own plans and are completely responsible for executing them.

- Every lab has a faculty in Charge who initiates all purchases and repairs.
- HoD has been authorized to invite quotations from competitive firms. Comparative statement is prepared

land recommendations are made by the Department.

6.1.2 Does the institution have a Management Information System (MIS)?
Yes/No/Partial: Yes

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (within 100 words each)**:**

❖ Curriculum Development

The institution regularly upgrades the curriculum based upon the inputs received from the departmental Advisory Board and prepares a RSC Matrix (Research, Skills & Curriculum) which is embedded in all the semesters.

Based on the recent communication of Model Curriculum framed by AICTE, college has taken up implementation of revised academic regulations and curriculum, applicable from 2018-19 onwards.

❖ Teaching and Learning

1. The teaching pedagogy is aligned with outcome-based education model
2. 100 percent classrooms and labs are equipped with IT infrastructure to enable ICT based teaching
3. Google classroom is being effectively implemented across entire organization by 100% faculty members. The platform is used to disseminate valuable information like, e-class notes, Web Links NPTEL Lectures, MooC courses, Internal Assignments, Quizzes, etc. Students are also being encouraged to share information and collaborate in the teaching process.
4. The student's performance is assessed continuously through various assessment tools including classroom performance, tutorials, quizzes, assignments and internal examination.
5. Teaching and learning processes are continuously improved from the student's feedback collected twice every semester which helps every faculty to improve their teaching procedures. Teachers adhere to the academic calendar prepared for that particular year and have a Course Handout-Lesson plan in hand before commencing the new semester. Course Handouts are shared on the google classroom.

❖ Examination and Evaluation

The examinations are conducted by the University of Jammu. However, internal assessment tests are conducted by MIET. Internal assessment constitutes 25-40% weight-age in the overall score and varies for different courses. Some of the best-practices adopted by the institution in examination and evaluation during this year are mentioned below:

- The quality of question papers is moderated by Controller of Examination, he receives 3 sets for each subject in the prescribed format and randomly he will select the paper.
- The overall quality of examination and evaluation is monitored by Controller of Examination & Internal Assessment Committee comprising of senior faculty members and heads of departments. The committee conducts regular checks and reviews to ensure that the process laid down at the institute level is complied with and any deviations are justified or corrected.
- Finally, a University of Jammu nominated committee validates the internal assessment award rolls and performs qualitative checks.
- It is mandatory for students to view their evaluated answer scripts and sign on them to indicate their satisfaction with the evaluation process.
- Students can ask faculty to review the evaluation in case of any discrepancies.

❖ Research and Development

- An institute-wide Research, Development and Publications committee comprising senior faculty and researchers has been constituted to monitor and enhance the quality of research.

- All research papers are routed through the committee which evaluates the paper and the quality of the forum to which the paper is submitted for review.
- The committee conducts regular orientation programmes/workshops for faculty to help them improve the quality of research.
- An online repository of all papers has been created for ready access to faculty within the institution.
- Faculty and students have been provided online access to IEEE Xplore digital library.
- A Research Promotion Scheme has been introduced which provides monetary incentives and recognizes faculty output in research and development. "Research Awards" are organized annually to felicitate all faculty members whose papers are published in the preceding year. During this year 35 research papers were published by the faculty in various reputed International Journals and Conferences, resulting in a total of 569 research papers till date.
- Faculty members are provided financial support to attend conferences and present papers.
- Regular "Research Workshops" for capacity building and "Gyan-Badhao" sessions for knowledge sharing are conducted to facilitate the research culture.
- 18 patents have been filed by the faculty at the Indian Patents and Trademarks Office. This year 1 patent filed in the year 2010 has been granted also from the Indian Patent Office.
- The institute automatically tracks the citation counts, h-index, i-10 index for individual faculty, department and institution through the purpose-built Performance Insight 360 software.
- The institute publishes the International Journal of Next-Generation Computing (http://ijngc.perpetualinnovation.net) jointly with the University of Missouri-Kansas City, USA which is indexed by Thomson Reuters, Emerging Sources Citation Index (ESCI) under Web of Science.

❖ Library, ICT and Physical Infrastructure /Instrumentation

- The library infrastructure has been revamped with new state of the art infrastructure including air Conditioning and fall ceiling.
- College has subscribed to IEL-Online under INDEST-AICTE by paying over Rs. 5.70 lakh per annum under which faculty and students have on-line access to 160+ IEEE Journals.
- College has subscribed to e-Books world library at cost of Rs. 1.03 Lakhs.
- Access to ACM Digital Library exists.
- The library maintains separate reference/periodical section with back volumes and current journals/dissertations/project reports for ready reference.
- Access to open-access literature through JGATE
- DELNET membership
- The library is completely automated with bar-coding of all books and reference materials.
- The library is open beyond working hours to provide enhanced access to students and faculty.
- ICT is a major emphasis area for the institution and several ICT initiatives have been undertaken, such as:
  - Google Classroom has been implemented
  - Learning Management System is implemented
  - Campus ERP System is implemented
  - Analytics Framework – Performance Insight 360 is implemented
  - Library Management System is implemented
  - Innovative solar-powered CCTV cameras are installed for campus security
  - All systems are accessible on 24x7 basis.
  - Wi-fi facility is available throughout the campus
  - About 30% of the classes utilize projectors for delivering digital content to the students.

❖ Human Resource Management

- The time for recruitment for outstation candidates has been significantly reduced by introducing Skype interviews and online release of offer letters.
- The institution has explored online portals like Naukri.com, LinkedIn Jobs and Facebook Jobs for hiring faculty
- MIET prides itself in providing the best working environment and benefits package in the region helping in attracting the best talent.
- MIET is an equal opportunity employer with a diverse workforce, a fact which has been appreciated and acknowledged by the University of Jammu officials.
- Career progression is supported and clear growth paths for individuals articulated.
- Performance appraisal system is completely automated through the online analytics framework.
- Staff feedback collection and analysis is completely automated, and the action taken is duly shared back with the staff.
- Staff outreach programmes are regularly initiated for two-way communication and better engagement.
- Attrition rate is carefully monitored and exit interviews are mandatory for all employees leaving the institution. Strategies for improving retention are formulated based on the analysis of exit interviews.
- Advanced Mentoring programmes are conducted for developing future leaders at MIET.
- Tea with Director and Town Hall meets ensure regular interaction of management with faculty members.
- Management Development Program was carried out for the Leadership team where in the entire was committed towards planning and implementation of various processes.

❖ Industry Interaction /Collaboration

- J&K has very limited industry and hence industry collaboration remains a challenge. Yet significant progress has been made in this important area during the previous academic year
- MIET signed MoU with UI Path.
- MIET signed MoU with Github.
- MIET signed MoU with Mitsubishi Factory Automation Lab.
- MIET signed MoU with Bentley to set up BIM lab.
- MIET signed MoU with Amazon Web Services to launch AWS Cloud Architect Certification.

❖ Admission of Students

- Several outreach programmes are conducted to apprise students about the initiatives and achievements at MIET.
- Social media is utilized to reach out to the target audience for brand building and generating awareness.
- The admission process is online and digital. A helpdesk provides all support and help to streamline the admission process.

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

- Planning and Development
- Administration
- Finance and Accounts
- Student Admission and Support
- Faculty attendance and leave management

Sr. No	Areas of Operation	E- Governance System
1	Planning and Development	Performance Insight 360
2	Administration	ERP
3	Finance and Accounts	ERP
4	Student Admission and Support	ERP

	5	Faculty attendance and leave management	Facto HR	

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Faculty member	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
15-06-19	Dr. R. M. Vaid	AICTE workshop on examination reforms		3328
28-03-19	Dr. Ankita Nanda Dr. Parul Mahajan Dr. Deeksha Singh	Strategic Marketing Initiatives in Emerging Market (International Conference)		14000
02-03-19	Mr. Ankit Sharma	Workshop on Mitsubishi Electric CUP		11115
05-02-19	Mr. Ankush Sharma	IoT What and How		2940
25-01-19	Dr. Syed Jalal Ahmad Mr. Rajinder Tiwari	International Conference on distributed computing & internet technology		20000
04-12-18	Mr. Sunil Kumar, Ms. Meenu Lochan, Ms. Veena Tripathi	Data Analytics techniques with Python		7500
04-12-18	Ms. Chaahat Gupta	Paper Presentation on Intelligent Computing 2018 at International Conference in Bangalore		10000
01-12-18	Dr. Sahil Sawhney	1st HR Conclave at IIM Jammu		3000
28-11-18	Prof. S. K. Sharma	MHRD Innovation Meeting at AICTE New Delhi		115940
14-08-18	Ms. Anupama Padha	Emerging Research Trends in Computer Science & IT		6100
18-07-18	Mr. Rishi Gupta, Mr. Purnendu Prabhat, Mr. Karan Khajuria	AI Training at Bennett University		1675
18-07-18	Dr. Divya Gupta	GIAN Course under MHRD scheme on "Quantitative Microbial Risk Assessment"		10000

6.3.2 Number of professional development/administrative training programmes organized by the College for teaching and non-teaching staff during the year

Year	Title of the professional development programme organized for teaching staff	Title of the administrative training programme organized for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019	Fundamentals of Deep Learning for Computer Vision		8-04-19 to 8-04-19	2	
2019	Two Days Training on FX3U Series PLC		24-01-19 to 25-01-19	2	
2019	Training session on CNC Trainer Lathe and Milling Machine		21-01-19 to 24-01-19	6	
2019	Training by AIMCO India on		21-01-19 to	6	

	Concrete Lab		21-01-19		
2019	Training on MC WORKS 64 software		17-01-19 to 18-01-19	7	
2018	STAAD Pro Software		27-11-18 to 28-11-18	5	
2018	PHP and MySql Certification		04-09-18 to 09-10-18	1	
2018	IEEE ASPP online Training		30-08-18 to 30-08-18`	12	
2018	Mitsubishi Lab training		18-08-18 to 19-08-18	16	
2018	Training Programme of Factory Automation using PLC's		17-08-18 to 19-08-18	6	
2018	Training on AIMCO India lab equipment's		17-07-18 to 19-07-18	6	

6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
System Administration Data Science	1	20-06-19 to 28-06-19
AICTE workshop on examination reforms	1	24-05-19 to 24-05-19
Workshop on Research, Innovation, Patent and Commercialization.	8	13-05-19 to 13-05-19
IoT What and How	1	24-12-18 to 28-12-18
One Week Short Term Course on Advanced Techniques for Next Generation Networks with Focused on 5G, IoT & Aerially Controlled HETNETs	8	16-12-18 to 20-12-18
National Workshop on Communication Skills Required for Teaching	7	15-12-18 to 15-12-18
Workshop on Training of Trainer	1	10-12-18 to 11-12-18
HR Conclave	1	24-11-18 to 25-11-18
Data Analytics techniques with Python	3	04-09-18 to 08-09-18
BVICAM, New Delhi	1	23-07-18 to 28-07-18
Data Analytics Techniques with Python	3	04-09-18 to 8-09-18
Ethics in Public Administration	1	21-07-18 to 21-07-18
Summer School in Social Sciences- Interdisciplinary Refresher Course	1	03-07-18 to 25-07-18

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
77	101	53	53

6.3.5 Welfare schemes for	
Teaching	1.Free Transport Service 2.Medical/Insurance Cover 3. Self-administered PF Scheme 4. Interest-free loans 5. Sponsorship for Higher Education 6. Study and Professional Development Leave
Non-teaching	1. Free Transport Service 2. Medical/Insurance Cover 3. Self-administered PF Scheme 4. Interest-free loans
Students	1. Founders Scholarships 2. Medical/Insurance Cover 3. Project Funding for select projects 4. Financial support to attend external events.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

  (with in 100 words each**)**

Institute has made the necessary provisions in the books of accounts towards efficient use of available funds for each academic year. The college has a well formulated financial policy which ensures effective and optimal utilization of finances for academic, administrative and development purposes. Towards this end, every year, the budget is prepared centrally well in advance after taking into consideration the requirements of every department coupled with the strategic objectives of the institution.

The budget is reviewed by the management and approved after necessary changes. As and when required, the institute makes a provision for advance/additional funds. The Board of Directors approves the annual Expenditure, scrutinizes the balance sheet and provides feedback for further optimal use of financial resources.

Financial audits are conducted by a certified auditor every financial year to verify the compliance with established financial processes.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III)

Name of the non-government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
AICTE	1050000	Smart City Nerve Center

6.4.2 Total corpus fund generated

80265053

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes		Yes	
Administrative	Yes		Yes	

6.5.2 Activities and support from the Parent – Teacher Association

Parents are regularly invited to interact with the faculty and are shown the progress of the students through the PI 360 framework which provides an overall view of the student performance in all spheres i.e. academic, co-curricular and extra-curricular.

1) It helps to foster and promote good relationship among faculty, staff, student with parents to promote social development.
2) It helps to create keen interest for the smooth functioning of the institute.
3) It helps to understand the diversified need of the students belonging to different backgrounds
4) Parent feedback is collected once in a year for further improvement.

6.5.3 Development programmes for support staff

- Support staff is encouraged and sponsored to pursue higher education. Around 5 members of the technical staff are currently enrolled in various higher education programmes such as M.Tech.
- Regular orientation programmes/technical workshops are organized for the technical support staff to upgrade their skills. This year a 2-week training programme was organized for the Lab and workshop staff wherein they prepared literature on VLab, wrote material for Pre-Lab sessions, deigned experiments for the upcoming semester.
- Awareness talk on health and hygiene.

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

1. The institution has made a transition towards outcome-based education and is focused on continuous assessment through direct and indirect assessment methodologies
2. The institution has significantly improved the quality of teaching staff by hiring PhD qualified faculty from IITs, NITs and top ranked NIRF institutions
3. The institution has set up PLC, Scada and Robotics lab in association with Mitsubishi Electric to provide practical exposure to students in Factory Automation
4. The institution has forayed into vocational education by getting approvals from AICTE, University of Jammu and the State Government for starting three-year Bachelors in Vocation Software Development degree program and three year Diploma program in Software Development.

6.5.5

a. Submission of Data for AISHE portal   : Yes

b. Participation in NIRF   : Yes

c. ISO Certification   : No

d. NBA or any other quality audit   : Yes

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to------)	Number of participants
2019	Conducted NBA visit for CSE department.	20th-21st April 2019		NA

2019	Data Quest Magazine Ranking Framework	5th April 2019		NA
2019	AISHE	23rd Feb 2019		NA
2019	Submission of Annual Quality Assurance Report to NAAC	15th Jan 2019		NA
2019	Weekly meeting with Class Representatives of all the departments	Feb 2019		105
2018-19	Quarterly review meetings are conducted using the tool Performance Insight 360 (PI 360). Audit of documents for Academic & Administration were done as per the standards of ISO 9001:2015. The audit report was shared for further improvement and follow up was done subsequently.	October 2018, Dec 2018 & April 2019		65
2018	Feedback from various Stakeholders (Faculty, Students & Alumni) was collected, the feedback was analyzed and used for improvement	Sept 2018, Nov 2018		1100
2018	Atal Ranking of Institutions on Innovation Achievement	20th Dec 2018		
2018	Participation in NIRF	17th Nov 2018		NA

CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
International Women's Day	10-03-2019 to 10-03-2019	75	
Workshops on Sexual Harassment Awareness	15-04-2019 to 22-04-2019	95	240

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:
Percentage of power requirement of the College met by the renewable energy sources

- Solar panel are installed on the campus rooftops to harness solar energy, the present solar panels generate energy equivalent to 30KVA.
- The CCTV cameras installed to cover external areas in campus use solar panels to charge their batteries.

- The campus is installed with LED lights throughout.

7.1.3 Differently abled (Divyangjan) friendliness		
Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities		
Provision for lift	Yes	-
Ramp/ Rails	Yes	NA
Braille Software/facilities	-	-
Rest Rooms	Yes	NA
Scribes for examination	-	-
Special skill development for differently abled students	-	--
Any other similar facility	-	-

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2018-19	1		25-03-19 to 26-03-19	Codeathon	Student Project Management Tool	20 Students
2018-19		1	02-02-19 to 02-02-19	Eye Checkup at Amb Village	Health Camp	15 students and 5 Staff
2018-19		1	13-12-18 to 13-12-18	Donation for Kerala Relief Fund	Kerala Flood Relief	260 Students and 150 Staff
2018-19	1		17-11-18 to 18-11-18	Projectathon	In line with the Technology	80 Students and 3 Staff
2018-19		1	15-11-18 to 20-11-18	Civil Defense Training	Fire Fighting Skills	20 Staff and 50 Students
2018-19	1		15-10-18 to 20-10-18	Co Cubes	Better Placement Opportunities	85 Students
2018-19		1	05-10-18 to 05-10-18	Blood Donation	Collection by Red Cross	100 Students
2018-19	1		2-09-18	MAT online Exam	Online exam for students	77 Students

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

A CD is provided to each student at the time of admission containing:

o E-Brochure o Learning Resources o Rules and Regulations o Code of Ethics for Engineers o Syllabus with course details	

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration	Number of participants

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

1. **Innovative Energy Saving Methods**
o Incandescent lamps have been replaced with CFLs and LED lamps thus saving hundreds of kilowatts of electric energy. Even LCD monitors of computer systems have been replaced
with LED monitors.
o Air conditioners with ratings of 3-star and above are used which save a lot of electricity. In the newly commissioned 250-seater auditorium ACs of 5-star rating have been provisioned
o Innovative techniques have been used to reduce the inside temperature of the top floor staff rooms, library etc. during summers. Simple low-cost white washing of roof tops reduces
the inside temperatures by around 6o C.

2. **Use of Renewable Energy**
o The CCTV cameras installed to cover external areas in campus use solar panels to charge their batteries.
o 30 KVA solar power generator is installed in campus under Govt. subsidy at cost of Rs. 5.40 Lakhs.

3. **Carbon neutrality and Plantation: To improve of the carbon footprint of the institution, following actions have been taken: -**
o Converting 30% of barren (Kandi) land to an urban micro forest: In collaboration with the Department of Forests, J&K, students were involved in plantation of trees and creating anUrban Forest over the years. As on today, this forest comprises:
a. Number of tree of age 15 years and more - 700
b. Number of trees of age between 6 to 15 years - 1426
o As per data available from the Forest Dept., 2-4 full grown trees give as much as 700 kg of oxygen per year which is the need of an adult human being. Also, each tree removes around20-30 Kg of undesirable CO_2 from the environment every year thus cleansing the air. Besides this it reduces the ambient temperature by around 5-6oC in surrounding areas besides
providing shade.
o Making a medicinal plant park: About one acre of land has been earmarked for making a Medicinal Plant Park in the college. Accordingly, hundreds of Amla (phyllanthusemblica)saplings were sowed with survival rate of around 30%. As on today there are 25 trees which are around 10-15 feet tall and another 52 are 2-4 feet tall.
o Gardens and nursery: 1 acre of land has been earmarked for grassy patches including a nursery. Seasonal vegetables are sowed in the nursery which is used in the Girls' Hostel. Garden areas add to the beauty of the college besides improving carbon footprint. They also prevent soil erosion.
o Plantation Drives: NSS Committee of the college organizes regular plantation drives and save-the-trees drives periodically. Grown up trees which are likely to eaten away by termites are
saved by anti-termite treatment and painting the lower portion of the trunk with calcium carbonate.

4. **Waste Management:**
o Hazardous materials like chemicals, paints, inflammable gases are segregated and kept separately. These are disposed-off under supervision of Campus Supervisor through vendors which specialize in their disposal.
o E-waste are segregated and disposed-off as per the new E-waste Management Rules which have come in force in the country since Oct 2016. J&K State Pollution Control Board has authorized two vendors for handling and

disposing of E-waste material. College deposits E-Waste material with them as and when e-waste is to be disposed:

- M/S Attero Recycling Pvt. Ltd, Ratnuchak, Puramanddal More, Jammu
- M/S Auctus E-Recycling Solutions Pvt. Ltd, Plot No: 105, Ward-6, Narwal, Jammu

o Latest batch of E-waste comprising 106 CRT monitors and 85 key boards were disposed-off in September 2018.

7.2 Best Practices

Describe at least two institutional best practices:
Title of the Practice:
Performance Insight 360: Quality Analytics Framework at MIET

Goal: To enhance quality, performance and achievement levels of all stakeholders and institutionalize a culture of high-performance in the institution.

The Context: Using ICT to enhance governance and improve institutional performance.

The Practice: A cloud-based quality management software which automates many aspects of quality assurance and provides each stakeholder with a dashboard of their cumulative performance.

Evidence of Success: Year-over-year improvement in institutional performance index and achievement levels leading to best admissions in the region.

Problems Encountered and Resources required: Getting stakeholder buy-in and ensuring usage. Created process interventions to ensure compliance leading to PI-360 becoming ingrained in day-to-day working of the institution. Resources required are a cloud-based Virtual Private Server to deploy the solution and ensure 24x7 uptime.

Notes (Optional):
Performance Insight 360 which is an analytics framework for managing quality at the individual, group and institutional level. Two patents have been filed at the Indian Patents
Office by the Centre for Software Development at MIET encompassing this invention.

Title of the Practice:
Research Awards, Research Promotion Scheme and

Goal: To create a culture of promoting quality research at MIET.

The Context: Research is an integral component of higher technical education but producing quality research output remains a challenge. For an institution, such as MIET, which offers primarily undergraduate courses in Engineering, getting research activities off the ground required an innovative strategy to be formulated.

The Practice: The Research Promotion Scheme at MIET provides financial incentives to faculty and students for their research output besides providing financial support in attending conferences, paying registration fees etc. The Annual research awards recognize the researchers and help celebrate individual/group achievements.

Evidence of Success: 563+ research papers published by faculty till date with 60% in international journals and conferences, 18 patents filed, 2 IT products incubated, 3 mobile applications developed.

Problems Encountered and Resources required: Overcoming inertia, creating awareness about benefits of research

in career development and growth, creating a budget for research and demonstrating institutional commitment to research, low fee structure was a hindrance in creating facilities/resources for research.

Notes (Optional):
This best-practice is unique to MIET in the state of J&K and we are the only private institution which has a credible research output and culture which supports faculty research.

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7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust
Provide the weblink of the institution in not more than 500 words

The distinctive elements of the institute are summarized below:
1. MIET is the only NAAC "A" grade accredited technical institution in the state of J&K.
2. MIET is the only institution in the state of J&K to have filed 18 patents and have been granted 1 patent.
3. MIET became the first institution in the state of Jammu and Kashmir to receive the NBA accreditation for duration of 3 years for the Computer Science and Engineering Department
4. Linkages with top 5 out of top 10 IT companies including IBM, Dell-EMC, Cisco, Microsoft, Amazon, Bentley, Mitsubishi (most industrial linkages in the region)
5. MoU with University of Missouri-Kansas City, USA for direct admission to MS program without GRE and guaranteed tuition fee waiver.
6. Strong R&D push – 18 patents filed, 1 IT product commercialized, 550+ research papers, International Journal of Next-Generation Computing (IJNGC) published since 2010 (indexed in Web of Science)
7. MIET is the only private college in the region permanently affiliated to the University of Jammu.

8. Future Plans of action for next academic year (500 words)
1. To attain autonomy status by mid-2020
2. Attain NBA accreditation for 50% of the departments.
3. Successfully start the M. Tech Computer Science and Engineering program
4. Successfully start the B. Voc and D. Voc program in Software Development
5. Enhance intake in B.E Civil Engineering to 120 keeping in view the strong local demand
6. To take up consultancy projects.

Name Ms. Ruksana Salathia   *Name Prof. Ankur Gupta*

Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

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