

The Annual Quality Assurance Report (AOAR) of the IOAC
(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.: 01912623155
- Mobile no.: 9797522100
- Registered e-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 Affiliating University: University of Jammu
- 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
1 st	B	2.57	2012	5 Years
2 nd	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
<p>Stakeholder Feedback</p> <p>a) The feedback mechanism was automated through PI-360 software to calculate the stakeholder satisfaction index at the department and institution level.</p> <p>b) 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</p> <p>c) 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</p> <p>d) Feedback of trainings, workshops, induction process and individual courses were also taken to further improve the <u>quality of teaching and value-added</u></p>	April 2018, Sept 2018 & Nov 2018	1798

programs		
Performance Review Meetings a) Departmental level quarterly review meetings are 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 b) The academic & administration 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.	April 2018, October 2018 & Dec 2018	65
Accreditation Initiatives a) Computer Science and Engineering Department will undergo NBA accreditation in the month of February 2019. The detailed Self-Assessment Report was submitted in the month of December 2018 b) The institution has planned to avail membership of Institution of Engineering Technology (IET) to explore the international accreditation of the programs c) Two more departments including School of Management and Electrical Engineering has started the preparation for undergoing NBA accreditation during next year	13 th Dec 2018	NA
Participation in Survey/Rankings a) Participation in NIRF b) Atal Ranking of Institutions on Innovation Achievement c) Data Quest Magazine Ranking Framework d) Dialogue India Award e) Outlook Magazine Survey f) All India Survey for Higher Education Institutions	17 th Nov 2018 20 th Dec 2018 4 th July 2018 10 th April 2018 24 th May 2018 5 th Feb 2018	

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
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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)

- ❖ Automation of Stakeholder Satisfaction Index calculation
- ❖ Strengthening of Student Analytics in PI-360 analytics framework
- ❖ 1x1 meetings with faculty members for performance management
- ❖ Data-driven review meetings with departments, reducing meeting times significantly

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
<p>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.</p>	<ol style="list-style-type: none"> 1. MIET was accredited with NAAC “A” in second cycle of accreditation (Oct 2017) 2. MIET received Permanent Affiliation from University of Jammu. 3. MIET received approval from University of Jammu to start M. Tech program in Computer Science and Engineering from 2019-2020 academic session 4. Data Quest magazine ranked MIET in top 100 T-Schools in the country. It is ranked 77th in the list of private institutions and 93rd in the combined list of Govt. and private institutions (July 2018). 5. MIET received the approval from AICTE to start two vocational programs including B.Voc and D.Voc in Software Development programme from 2018-19 academic session 6. MIET organized the first international conference on Next-Generation Computing with funding from AICTE in Dec. 2017. The proceedings of the conference were published by IEEE Xplore Digital Library. 7. Prof. Sartaj Sahni, Distinguished Professor of Computer and Information Sciences and Engineering at the University of Florida had visited MIET to explore possibility of offering certificate program for final year students from Computer Science and Civil Engineering Departments with possible conversion to a MS program at University of Florida on preferential basis. 8. 30 KVA solar generation plant commissioned at MIET, D Block to promote the use of renewable energy in the campus 9. The faculty members with PhD from outside J&K were hired to improve the quality of teaching and research. 10. The institution received the grant of 75 Lakh under Pradhan Mantri Kaushal Yojna (PMKVY) to train and impart skill to 500 students in software development and electronics industry 11. The overall admission in the engineering and PG programs went up by 5 percent as compared to the previous academic years. 12. A new parking space was constructed to accommodate 100 four-wheeler vehicles. This was done on the basis of feedback received from the students. 13. MIET signed MoU with Mitsubishi Electric India to set up Mitsubishi Factory Automation Lab to train and certify students and local industry on factory

	automation. A lab worth 35 Lakh was set up in collaboration with Mitsubishi Electric
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14. Whether the AQAR was placed before statutory body? Yes/No: Yes

Name of the statutory body: Management Committee Meeting Date of meeting (s): TBH

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: 2018

Date of Submission: 23/02/2018

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.

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
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 quality assurance and improvement committee has been constituted at each department level

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, 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.

Curriculum Revision

<ol style="list-style-type: none"> 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. 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 Diploma Courses	Date of introduction and duration	focus on employability/ entrepreneurship	Skill development		
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		
B.Voc		2019-20		Bachelor of Vocation (B.Voc) in Software Development		
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	NA		NA			
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		
Life Skills/Attitude-Shaping (I Survive Camp)		01-04-18 to 31-05-2018		1400		
Employability Skills (Competency Building Programme, Co Cubes and Training on aptitude and logical reasoning)		Throughout the year		400		
Guidance and Counseling (PI-360 Orientation, Alumni Mentorship, Meet the Alumni Series, Interaction with Industry Experts, Faculty Mentoring)		Throughout the year		850		
Community Orientation (NSS activities, Adopt a Village)		Throughout the year		565		
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	97
Electronics & Communication Engineering	111
Information Technology Engineering	44
Electrical Engineering	61
Master's in Business Administration	40
Master's in Computer Application	48

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.

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	119
Electronics and Communication Engineering	120		85
Electrical Engineering	60		51
Information Technology Engineering	60		39
Civil Engineering	60		53
Master's in Business Administration	60		40
Master's in computer application	60		13

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 and PG Courses
2017-18	330	80	80	16	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 (<i>LMS, e-Resources</i>)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques Used
97	97	Projectors, Laptops, Desk Tops	40	0	MooCs, NPTEL, VLabs, Google Classroom

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

- Each student is assigned a faculty mentor who tracks the student progress providing personal guidance and counseling from time to time.
- 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.
- Placement and career counseling services are available to students through the Placement Cell/Committee. 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
1475	101	1:14.6

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)	7	4	1	5
Associate Professors (22)	4	18	1	3
Assistant Professors (67)	90	0	17	12

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
2018	Mr. Purnendu Prabhat and Mr. Rishi Gupta	Assistant Professor	AWS(Amazon) certified cloud architect certification
2018	Ms. Mekhla Sharma	Assistant Professor	ISTE Best Teacher Award
2018	Ms. Meena Kohli	Assistant Professor	ISTE Best Teacher Award
2017	Dr. Satyendra Kumar Singh	Assistant Professor	ISTE Best Teacher Award
2017	Mr. Jamini Sharma	Assistant Professor	ISTE Best Teacher Award
2017	Mr. Salim Qureshi	Assistant Professor	Outstanding Student Chapter Chair-ACM

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	4 th Sem 6 th Sem 8 th Sem	6 th June 2018	15-10-2018 19-09-2018 11-07-2018
Electronics and Communication Engineering	ECE	4 th Sem 6 th Sem 8 th Sem	6 th June 2018	15-10-2018 19-09-2018 11-07-2018
Electrical Engineering	EE	4 th Sem 6 th Sem 8 th Sem	6 th June 2018	15-10-2018 19-09-2018 11-07-2018
Information Technology Engineering	IT	4 th Sem 6 th Sem 8 th Sem	6 th June 2018	15-10-2018 19-09-2018 11-07-2018
Civil Engineering	CE	4 th Sem	6 th June 2018	15-10-2018
Master's in Business Administration	MBA	2 nd Sem 4 th Sem	6 th June 2018	17-09-2018 25-09-2018
Master's in Computer Application	MCA	2 nd Sem 4 th Sem 6 th Sem	6 th June 2018	Awaited 10-12-2018 02-11-2018

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:

- 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 2nd sessional tests
- Dates for conduct of practical tests
- Dates for display of marks obtained by students in 1st and 2nd sessional 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 Application	35	35	100%
MBA	Masters in Business Administration	39	39	100%

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire)				
<p>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.</p> <p>The results are available on the link www.mietjmu.in/ss2017-18</p>				
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	-	-	-	-
Minor Projects	-	-	-	-
Interdisciplinary Projects	-	-	-	-
Industry sponsored Projects	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students Research Projects (other than compulsory by the College)	-	-	-	-
International Projects	-	-	-	-
Any other(Specify)	-	-	-	-
Total	0	0	0	0
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)	
Factory Automation using PLC and Scada in association with Mitsubishi Electric	Electrical Engineering Department		17-05-2018 to 19-05-2018	
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
Message Authenticity System	Sumant Pangotra and Suave Bajaj	AICTE, UGC and CII		National
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 (<i>applicable for PG College, Research Center</i>)						
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	CSE	2	0			
International	ECE	6	0.35			
	CSE	6	0.06			
	IT	4	0.05			
	EE	1	0			
	MCA	1	0			
	MBA	9	0.04			
	ASH	5	0.6			
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			7			
CSE			17			
IT			5			
MCA			1			
MBA			4			
ASH			2			
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
Weyl Spectrum of a Composition Operators on $L^2(N)$	Prof. Bhajan Singh Komal	Global Journal of pure and applied mathematics	2017		Model Institute of Engineering & Technology	0
Strategic Management in Indian Higher Education	Dr. Sahil Sawhney/Dr. Ankur Gupta		2017		Model Institute of Engineering & Technology	0
Internet of Things: Opportunity and Security Issue	Ms. Veena Tripathi	International Journal of Emerging Technologies in Engineering Research (IJETER)	2017		Model Institute of Engineering & Technology	0
Some Strongly Almost Summable Sequence Spaces	Dr. Sunil Kumar Sharma	Journal of Mathematics and Applications, No	2017		Model Institute of Engineering & Technology	0

		40, pp 1-13				
Effect of Load & Speed Variation on The Performance of Aluminum Hydrodynamic Journal Bearing System	Niranjan Singh	International Journal of Advanced Research in Engineering & Management	2017		Model Institute of Engineering & Technology	0
Intellimon: An Intelligent Polling Engine for Network Management	Mr. Purnendu Prabhat/Dr. Ankur Gupta	Recent Patents on Computer Science	2017		Model Institute of Engineering & Technology	0
A Comprehensive Review on Localization Techniques for Wireless Sensor Networks	Rashmi Chalia	International Journal of Emerging Technologies in Engineering Research (IJETER)	2017		Model Institute of Engineering & Technology	0
Resource Discovery in Inter-Cloud Environment: A Review	Dr. Ankur Gupta/ Ms. Mekhla Sharma	International Journal of Advanced Intelligence Paradigms	2017		Model Institute of Engineering & Technology	0
A Journey into The Heart of Workaholism From Cross Cultural Perspective	Dr. Parul Sharma	International Journal of Human Resources Development and Management	2017		Model Institute of Engineering & Technology	0
Novel Approaches in Network Fault Management	Dr. Ankur Gupta/ Mr. Purnendu Prabhat	INTERNATIONAL JOURNAL OF NEXT-GENERATION COMPUTING Volume:8 Issue:2	2017		Model Institute of Engineering & Technology	0
Workaholism And Bank Employees' Well-Being: An Inside Look	Dr. Parul Sharma	International Journal of Business Excellence (In Production)	2017		Model Institute of Engineering & Technology	0
Detection of Gray Hole Attack in Wireless Sensor Networks Using Support Vector Machine	Mr. Ravinder Bahl	International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS)	2018		Model Institute of Engineering & Technology	0
Performance	Dr. Satyendra K	Journal of	2018		Model Institute	0

Analysis of Undoped And Mg-Doped Zno/P-Si Heterojunction Diodes Grown by Sol-Gel Technique	Singh	Materials Science: Materials in Electronics, doi: 10.1007/s10854-017-8486-x			of Engineering & Technology	
A New Copy Move Forgery Detection Technique Using Adaptive Over-Segmentation and Feature Point Matching	Anil Gupta	International Journal of Electrical and Computer Engineering	2018		Model Institute of Engineering & Technology	0
Capacitor Voltage Balancing in Neutral-Point Clamped Rectifier Using	Dr. Nitin Langer	Computers and Electrical Engineering [International Journal ISSN: 457906]	2018		Model Institute of Engineering & Technology	0
A Note on Prime Ideals of Ifp-Rings and Their Extensions	Dr. Smarti Gosani	East-West J. of Mathematics: Vol. 19, No 2 (2017) pp. 1-7	2018		Model Institute of Engineering & Technology	0
A Framework for The Smart-City Nerve Center	Mr. Purnendu Prabhat/Dr. Ankur Gupta	INTERNATIONAL JOURNAL OF NEXT-GENERATION COMPUTING Volume:9 Issue:1	2018		Model Institute of Engineering & Technology	0
Impulse Buying: A Review Analysis Merc	Dr. Ankita Nanda	Global International Journal of Social Sciences and Management	2018		Model Institute of Engineering & Technology	0
Recognizing Digits from Natural Images and Handwritten Digits Using Deep Convolutional Neural Networks	Mr. Dhruv Kumar	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	2018		Model Institute of Engineering & Technology	0
A Comprehensive Study on Power Consumption In IOT	Ms. Rashmi Chalia	International Journal of Scientific Research in Computer Science, Engineering and Information	2018		Model Institute of Engineering & Technology	0

		Technology Volume:4 Issue:1				
Silicon Nitride as Antireflection Coating to Enhance the Conversion Efficiency of Silicon Solar Cells	Dr. Rajinder Sharma	TURKISH JOURNAL OF PHYSICS	2018		Model Institute of Engineering & Technology	0
Inter-Cloud Resource Discovery	Dr. Ankur Gupta/ Ms. Mekhla Sharma	JK Journal of Architecture and Engineering Sciences Volume:01 Issue:01 pp :12-21	2018		Model Institute of Engineering & Technology	0
Energy Evaluation of Sensor Protocols Based on Artificial Neural Network Approach	Dr. Mohit Mittal	JK Journal of Architecture and Engineering Sciences Volume:1 Issue:1 pp :22-32	2018		Model Institute of Engineering & Technology	0
Fredholm Generalized Composition Operators on Weighted Hardy Spaces	Prof. Bhajan S Komal	Faculty of Sciences and Mathematics, University of Ni's, Serbia, Serbia	2018		Model Institute of Engineering & Technology	0
Emotional Intelligence: A Comparative Study on Public and Private Sector Banks with Special Reference to Jammu City	Ms. Parul Mahajan	RESEARCH REVIEW International Journal of Multidisciplinary Volume:3 Issue:5 pp :93-97	2018		Model Institute of Engineering & Technology	0
Adopting Strategic Management in Higher Education in India: Need, Challenges and Ideas	Dr. Sahil Sawhney/Dr. Ankur Gupta	International Journal of Management Practice	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
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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		14	6	28
Presented papers	31	4		
Resource Persons		2		

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 participated in such activities
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
Swachh Campus Abhiyaan	NSS Unit MIET (Prayas)	10	250
Swachh Bharat Internship Programme	UGC	4	39
Civil Defense Training- Basic Course	Central Government	20	80

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
Swachh Bharat Internship Programme	Certificate of Participation	UGC	39
Civil Defense Training-Basic Course	Certificate of Participation	Central Government	80

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
Swachh Bharat Summer Internship 2018	UGC	Swachh Bharat Internship	4	39

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
NA	NA	NA	NA

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

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
Mitsubishi Electric India	18 th April 2018	To spread awareness about automation amongst young engineers and contribute to the Indian Market through its products & technologies	60
Bentley	24 th Nov 2017	To setup the BIM (Building Information Modelling) Advancement Lab with cutting-edge, industry relevant software catering to diverse sub-domains of Civil Engineering. It will offer hands on exposure to students on over 60 software packages from Bentley including STAAD, MX Road and Context capture.	180
Amazon Web Services	7 th Sept 2017	To provide training & certifications to the students on AWS Cloud Computing Architect	50

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
90,00,000	Rs. 78,15,987

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	10	12
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 (\geq 1-0 lakh) during the current year.			30			65
Value of the equipment purchased during the year (Rs. in Lakhs)			Rs.35,09,070			Rs. 21,29,695
Others			Rs.26,02,993			Rs. 15,75,527
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:						
	Existin g		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	26823	Rs.77,51,859	100	Rs. 43,699/-	26923	Rs.77,95,558/-
Reference Books	7077	Rs.20,11,890	7 5	Rs.32,700/-	7152	Rs.20,44,590/-
e-Books	10,000 (DELNET) & 41,86,185 (WEL) 7 million eBooks (NDL)	Rs. 11,500 & 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	60	Rs.2,40,181	04	-	64	Rs.2,46,505/-
e-Journals	169+Back files to 2005 (R.S. 2017)	Rs.5,32,818/- (Annual Subscriptio n)	169+Back files to 2005 (R.S. 2017)		183+Back files to 2005 (R.S. 2018)	Rs.5,45,433/- (Annual Subscription)
Digital Database	TLSS → Total Lib Software System					
CD & Video	1700	-	37	-	1737	-
Library automation	Fully Automated Library					
Weeding (Hard & Soft)	Hard copies of Back- volumes of Magazines	630 copies of 17 Titles has been weeded				
Others (specify)	2652	-	58	-	2710	-

4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Computers	Computer Labs	Internet	Browsing Centers	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	599	13	102mbps	2	0	6	7		0
E-Waste	48								
Added	54	0		0	0	0	0		0
Total	605	13	102mbps	0	0	6	7		0
4.3.2 Bandwidth available of internet connection in the Institution (Leased line)									
102MBPS									
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
10,00,00,000	5,45,81,232	10,00,00,000	4,87,71,814
4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (<i>maximum 500 words</i>) (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 ethernet 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. All the stakeholders have equal opportunity to use those facilities as per the rules and the policies of the institution. The library is also provided LAN facility for the computers and they are loaded with the library software. The departments and the staff can make use of the computer system with internet at their seating places in addition that majority of the staff has their own laptops and the internet providing instruments.

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 not only to the college students. Accession to library is permitted at the cost of the deposits as caution money. A provision of the budget for the library maintenance is made by the college management. The activities like fumigation and keeping library clean is done frequently by library staff.

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
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Financial support from institution	Tuition Fee Waiver	19	9,12,000
Financial support from other sources			
a) National	Mahindra & Mahindra Financial Services Limited (MMFSL)	5	Rs. 1,25,000
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	215	MIET
Soft Skill Development (Competency Building Programme)	September-November	86	
Language Lab		350 all the 1 st year students	MIET
Mentoring	2 times in each semester	1475 (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
8	8	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
Infineon	80	2	Concentrix	10	3

Trigent	80	9	Teleperformance	15	3
HDFC	23	15	Just Dial	10	3
ICICI Prudential Life Insurance	19	17	Hewlett Packard Enterprise	25	2
Aricent Technologies	15	5	Mind Tree	18	2
Manhattan Associates	35	3	Apollo Munich	3	2
			Netsmartz	35	1
			TLC		1
			Food Panda Pvt. Ltd.	8	1
			Tech Aspect	40	1
			Plaxonic Technologies Pvt. Ltd	15	1
			Vimta Lab	1	1
			Skyach Pvt. Ltd		3
			Rooman Technologies	35	12
			HDFC Sales Pvt. Ltd.	1	1
			UIV Consultants Pvt. Ltd	8	1
			Geotech Management LLP	5	1

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	4	Engineering & Technology	Electronics & Communication Engineering	Institute of Science & Technology, Central University, Chandigarh University	M.Tech & MBA
2018	4	Engineering & Technology	Computer Science & Engineering	Shri Mata Vaishno Devi University, Lovely Professional University, Central University, Chandigarh University	M.Tech & MBA
2017	4	Engineering & Technology	Electronics & Communication Engineering	Shri Mata Vaishno Devi University, Central University	M.Tech & MBA
2017	3	Engineering & Technology	Computer Science & Engineering	Shri Mata Vaishno Devi University, Lovely Professional University	M.Tech
2017	2	Engineering & Technology	Information Technology	Kashmir University	M.Tech

			Engineering		

5.2.3 Students 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	2000
MIET Open Chess Championship	Inter-College	120
MIET Open Table Tennis Championship	Inter-College	80
MIET Premier League (Cricket)	Inter-College	90

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	Student ID number	Name of the student
2018	Silver Medal	National	Judo		Vikram Sharma
2017	Gold	State	Fencing		Aanish Kumar

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

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
- NSS, Extension & Outreach
- Sexual Harassment
- Cultural & Co. Curricular
- Placement, Alumni & Guidance Counselling

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.

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
During the year MIET signed MoU with Mitsubishi Factory Automation Lab to set up Lab, Bentley to set up BIM lab, Amazon Web Services to launch AWS Cloud Architect Certification and ICDL for Skill Development.
❖ Teaching and Learning
<ol style="list-style-type: none"> 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
❖ Examination and Evaluation
<p>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:</p> <ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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. A total of 545 research papers had been published by the faculty by the end of 2018.

- 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.
- 15 patents have been filed by the faculty at the Indian Patents and Trademarks 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://ijnqc.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

- 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
- MIET started with Avid reader award for faculty and students for maximising usage.
- 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

- 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 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	ERP
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
2018	Prof. Ankur Gupta	Zonal Lead Institution for All India Research Project.		15,000

2018	Dr. Sahil Sawhney, Mr. Rishi Gupta, Mr. Karan Khajuria & Mr. Purnendu Prabhat	Workshop on Artificial Intelligence & Deep Learning		37,192
2018	Ms. Sheerin Zadoo & Ms. Arti Kotru	Workshop on Machine Learning and its Applications		10,914
2018	Mr. Rishi Gupta & Mr. Purnendu Prabhat	AWS Cloud Architect Associate Certification		9,564
2018	Dr. Raj Mohan Vaid	Participation in the National Symposium Organised By ISCAS		2,000
2018	37 Faculty Members	Exceptional Contribution in the Field of Research Publications		1,30,414
2017	Ms. Shafalika Vijayal	GHCI Conference at Bangalore		17,936
2017	Ms. Meena Bhan & Ms. Reeta Bhat	Workshop at SMVDU		2,195
2017	Mr. Rishi Gupta & Mr. Purnendu Prabhat	Training of Amazon Cloud Architect Certification at Pune		43,125
2017		Conference REDSET at GD Goenka University Gurgaon		5,000
2017	Mr. Rishi Gupta	India International Science Festival, Anna University		22,187
2017	Mr. Salim Qureshi	Meeting of FIST Grant at Chennai		2,422
2017	Dr. Ankita Nanda	International Conference PAN IIM, Lucknow		2,124
2017	Dr. Archana Sharma & Dr. Satyendra Kumar	International Conference on Condensed Matter Physics held at Bikaner, Rajasthan		15,636
2017	Dr. Sahil Sawhney	International Conference on Management & Research held at IIT Roorkee		5,000

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)
2018	Program of Factory Automation using PLCs		17-05-2-18 to 19-05-18	18	
2018	Training on AIMCO India lab equipment's		17-07-18 to 19-07-18	6	
2018	IEEE Xplore Digital Library		09-03-18 to 09-03-18	14	
2018	Machine learning with Big Data		2-03-18 to 10-04-18	1	

2018	Java Certification		1-05-18 to 4-06-18	26	
2018	Embedded System Design		22-01-18 to 28-04-18	2	
2018	Introduction to programming in MATLAB		26-03-18 to 25-05-18	1	
2018	Institutional Digital Repository		06-04-18 to 7-04-18		4

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)
Leading India, Bennett University, Noida, India	4	5-06-18 to 7-06-18
BVICAM, New Delhi	1	23-07-18 to 28-07-18
Pattern recognition and Image Analysis	1	25-05-18 to 29-05-18
International Workshop on Soft Materials and Devices	1	21-03-18 to 25-03-18
K.A. Analytics, London, U.K	1	18-01-18 to 23-01-18
ICFAI Business School (IBS)	1	28-09-18 to 28-09-18
Workshop on Machine Learning and its Applications	2	01-02-18 to 05-02-18
Scientific paper writing	2	29-05-18 to 29-05-18
Big Data Analytics	1	28-05-18 to 1-06-18
3G to 5G	1	19-02-18 to 23-02-18
Emerging Issues in VLSI Design	3	7-05-18 to 11-05-18
Data Analytics Techniques with Python	3	04-09-18 to 8-09-18
Emerging Issues in VLSI Design	1	7-05-18 to 11-05-18
Applications of Soft Computing & Machine Learning	1	03-04-18 to 7-04-18
Modelling and Real Time Simulation of Electrical Systems	1	21-05-18 to 25-05-18
GIAN course under MHRD scheme on Quantitative Microbial Risk Assessment	1	18-06-18 to 29-06-18
Energy Sustainability	2	04-06-18 to 06-06-18
NISM Series-V-A: Mutual Fund Distributors Certification Examination	1	01-01-18 to 2-03-18
Big Data Analytics	1	28-05-18 to 01-06-18
Ethics in Public Administration	1	21-07-18 to 21-07-18
Foundation Program in ICT for Education	1	08-03-18 to 12-04-18
Sustainable Design and Manufacturing	1	12-02-18 to 16-02-18

Pedagogy for Online and Blended Teaching-Learning Process	1	3-05-18 to 30-05-18
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
34	34	10	10

6.3.5 Welfare schemes for

Teaching	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Free Transport Service 2. Medical/Insurance Cover 3. Self-administered PF Scheme 4. Interest-free loans
Students	<ol style="list-style-type: none"> 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		Rs. 3,00,000		International Conference
6.4.2 Total corpus fund generated				
Rs, 12, 17,41,314				
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.				
<ol style="list-style-type: none"> 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 				
6.5.3 Development programmes for support staff				
<ul style="list-style-type: none"> • 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. • Awareness talk on health and hygiene. 				
6.5.4 Post Accreditation initiative(s) (mention at least three)				
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
2018	Submission of Annual Quality Assurance Report to NAAC	28 th Dec 2017		NA
2018	Feedback from various Stakeholders (Faculty, Students & Alumni) was collected, the feedback was	April 2018, Sept 2018 & Nov 2018		1798

	analyzed and used for improvement			
2018	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.	April 2018, October 2018 & Dec 2018		65
2018	Participation in NIRF	17 th Nov 2018		NA
2018	Applying for NBA for CSE department	13 th Dec 2018		NA
2018	Atal Ranking of Institutions on Innovation Achievement	20 th Dec 2018		
2018	Data Quest Magazine Ranking Framework	4 th July 2018		NA
2018	Dialogue India Award	10 th April 2018		
2018	Drishti Survey	24 th May 2018		
2018	AISHE	5 th Feb 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	8-03-2018 to 8-03-2018	250	
Swachh Campus Abhiyaan	25-02-2018 to 25-02-2018	112	150
Workshops on Sexual Harassment Awareness	16-04-2018 to 21-04-2018	116	292
Sessions on consumer rights and welfare	04-08-2018 to 04-08-2018	90	142

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.
-

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
2017-18	1		17-11-2018 to 18-11-2018	Projectathon	In line with the Technology	80 Students and 3 Staff
2017-18	1		20-11-2018	GitHub "First Steps"	In line with the Technology	2 Staff and 30 Students
2017-18	1		2-09-2018	MAT online Exam	Online exam for students	77 Students
2017-18	1		10-04-2018	Psychometric Test	Better Placement Opportunities	80 Students
2017-18	1		15-10-2018 to 20-10-2018	Co Cubes	Better Placement Opportunities	85 Students
2017-18	1		11-12-2017 to 12-12-2017	International Conference	Next Generating Computing and Information Systems	50 Staff and 20 Students
2017-18		1	3-10-2017	Adopt a village	Helping Villagers	5 Staff and 40 Students
2017-18		1	16-06-2018 to 31-07-2018	Swacch Bharat Summer Internship	Cleanliness Awareness	4 Staff and 39 students
2017-18		1	15-11-2018 to 20-11-2018	Civil Defense Training	Fire Fighting Skills	20 Staff and 50 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: <ul style="list-style-type: none"> ○ E-Brochure ○ Learning Resources ○ Rules and Regulations

- Code of Ethics for Engineers
- Syllabus with course details

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration	Number of participants
Advanced Mentoring Programme	1yr	11

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

1. Innovative Energy Saving Methods

○ 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.

○ 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

○ 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

○ The CCTV cameras installed to cover external areas in campus use solar panels to charge their batteries.

○ 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: -

○ 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 an Urban 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

○ 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 around 20-30 Kg of undesirable CO₂ 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.

○ 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.

○ 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.

○ 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:

○ 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.

○ 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 and Research Promotion Scheme

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: 450+ research papers published by faculty till date with 60% in international journals and conferences, 15 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 accredited technical institution in the state of J&K.
2. Two departments of CSE and ECE were accredited by NBA. Reaccreditation for CSE is scheduled in Feb. 2019.
3. Linkages with IBM, Dell-EMC, Cisco, Microsoft, Amazon, Bentley, Mitsubishi (most industrial linkages in the region)
4. MoU with University of Missouri-Kansas City, USA for direct admission to MS program without GRE and guaranteed tuition fee waiver.
5. Strong R&D push – 15 patents filed, 1 IT product commercialized, 550+ research papers, International Journal of Next-Generation Computing (IJNGC) published since 2010 (indexed in Web of Science)
6. 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. Attain NBA accreditation for 50% of the departments.
2. Successfully start the M. Tech Computer Science and Engineering program
3. Successfully start the B. Voc and D. Voc program in Software Development
4. Enhance intake in B.E Civil Engineering to 120 keeping in view the strong local demand

Name Ms. Ruksana Salathia

Signature of the Coordinator, IQAC

Name Prof. Ankur Gupta

Signature of the Chairperson, IQAC
