

# Moradabad Institute of Technology, Moradabad

## ACADEMIC AND ADMINISTRATIVE AUDIT

ACADEMIC YEAR: 2019-20

### Section I: Basic Information

1	Audit Date	18-01-2021
2	Name of Department	Mechanical Engineering
3	Head of Department	Dr. Munish Chhabra
4	Number of Full time teachers	20
5	Number of Technical Staff	07
6	Number of Student	374
7	Student Full Time Teacher Ratio	18.70

### Section II: Curricular Aspects

#### 1. Academic Planning

Sr. No.	Particular	Available Yes / No	Remark(if any)
1	Academic Calendar	Yes	
2	Faculty Subject Choices	Yes	
3	Elective Choices from Students	Yes	
4	Course/Subject Distribution to Faculty	Yes	
5	Time Tables	Yes	
6	Lecture blow-up	Yes	

**2. Participation of the department in the curriculum development for courses offered by the AKTU.**

Sr. No.	Name of Faculty	Participated as	Course	Class
1	Mr. Puneet Kumar	Subject Teacher	Strength of Material	2 <sup>nd</sup> yr
2	Mr. Rakesh K Gangwar Mr Arvind K singh	Subject Teacher	Elements of Mechanical Engineering	1 <sup>st</sup>
3	Mr Atul Sharma/ Mr Pravesh Chandra	Subject Teacher	Kinematics Of machine	3 <sup>rd</sup>
4	Mr. Deepak Singh	Subject Teacher	Fluid Mechanics	3 <sup>rd</sup>
5	Dr. Munish Chhabra	Subject Teacher	Manufacturing Science	2 <sup>nd</sup>
6	Mr Sandeep Kumar	Subject Teacher	Composite Material	4 <sup>th</sup>
7	Mr. Prashant Singh	Subject Teacher	Automobile Engg.	4 <sup>th</sup>

**3. List of Elective Courses in Elective Course System Conducted by department to final year students**

Sr. No.	Name of Elective Course	Semester
<b>ODD SEM.</b>		
1	Laser System and Application	3 <sup>rd</sup>
2	Discrete Mathematics	3 <sup>rd</sup>
3	IC Engines and Compressors	5 <sup>th</sup>
4	Understanding the human being Comprehensively Human Aspiration audits fulfillment	7 <sup>th</sup>
5	Composite Materials	7 <sup>th</sup>
6	Power Plant Engineering	7 <sup>th</sup>
7	Supply Chain Management	7 <sup>th</sup>
8	Operation Research	7 <sup>th</sup>

EVEN SEM.		
9	Refrigeration & Air-conditioning	6 <sup>th</sup>
10	Renewable Energy Resources	8 <sup>th</sup>
11	Non-Destructive Testing	8 <sup>th</sup>
12	Advance Welding	8 <sup>th</sup>
13	Total Quality Management	8 <sup>th</sup>

#### 4. List of value added courses conducted in department

Sr. No.	Name of Value Added Course	Sem/year	No of Students Participated
1	ED-Cell course	5 <sup>th</sup> /3 <sup>rd</sup>	07
2	ED-Cell course	6 <sup>th</sup> /3 <sup>rd</sup>	61
3	PDP classes	3 <sup>rd</sup> /2 <sup>nd</sup>	37
4	PDP classes	4 <sup>th</sup> /2 <sup>nd</sup>	37
5	PDP classes	5 <sup>th</sup> /3 <sup>rd</sup>	63
6	PDP classes	6 <sup>th</sup> /3 <sup>rd</sup>	61
7	PDP classes	7 <sup>th</sup> /4 <sup>th</sup>	98
8	Boot Camp	7 <sup>th</sup> /4 <sup>th</sup>	98

### Section III: Teaching Learning & Evaluation

#### 5. Course / Curriculum Delivery

Sr. No.	Name of Subject	Name of Faculty	No. of Lectures / Practical's as Per Syllabus	No. of Lectures/ Practical as per teaching plan / Lab Plan	No. of Lectures/ Practical Conducted
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#### ODD SEM.

##### Semester I

1	Engineering Graphics & Design	Mr. Prashant Singh	10	10	12
2	Workshop Practice	Mr. Deepak Singh	10	10	15



<b>Semester III</b>					
3	Universal Human Values	Ms. Monika Singh	40	40	40
4	Thermodynamics	Mr. Rakesh Kumar Gangwar	40	44	69
5	Fluid Mechanics & Fluid Machines	Mr. Atul Sharma	40	40	46
6	Materials Engineering	Mr. Sandeep Kumar	40	40	40
7	Fluid Mechanics Lab	Mr. Atul Sharma	10	10	12
8	Material Testing Lab	Mr. Sandeep Kumar	10	10	
9	Computer Aided Machine Drawing-I Lab	Ms. Monika Singh	10	10	14
<b>Semester V</b>					
10	Machine Design-I	Mr. Pravesh Chandra	40	42	48
11	Heat & Mass Transfer	Mr. Arvind Kumar Singh	40	44	49
12	Manufacturing Science & Technology-II	Mr. Vipin Kumar	40	40	44
13	IC Engine And Compressors	Mr. Deepak Singh	40	43	44
14	Mechatronics And Microprocessor	Ms. Bhavyanidhi Vats	40	40	42
15	Design And Simulation Lab-I	Mr. Pravesh Chandra	10	10	10
16	Heat & Mass Transfer Lab	Mr. Arvind Kumar Singh	10	10	10
17	Manufacturing Technology-II Lab	Mr. Vipin Kumar Ms. Bhavyanidhi Vats	10	10	10
<b>Semester VII</b>					
18	Human Value	Mr. Pavanendra Kumar	28	28	29
19	Composite Materials	Mr. Sandeep Kumar	40	38	38

20	Power Plant Engineering	Dr. Abhishek Saxena	40	40	40
21	Supply Chain Management	Dr. Parul Gupta	40	40	40
22	Operation Research	Mr. Ganesh Sharma	40	40	41
23	CAD/CAM	Dr. Nitin Agarwal Dr. Munish Chhabra	40	46	60
24	Automobile Engineering	Mohd. Abdul Shafi	40	40	37
25	CAD/CAM Lab	Mr. Puneet Kumar Mr. Shubham Vyas	10	10	11
26	IC Engine & Automobile Lab	Mohd. Abdul Shafi Mr. Prashant Singh	10	10	10
<b>EVEN SEM.</b>					
<b>Semester II</b>					
27	Engineering Graphics & Design	Ms. Bhavyanidhi Vats	10	10	10
28	Workshop Practice	Mr. Vipin Kumar	10	10	10
<b>Semester IV</b>					
29	Energy Science & Engineering	Ms. Bhavyanidhi Vats	40	40	42
30	Applied Thermodynamics	Mr. Shubham Vyas	40	45	82
31	Engineering Mechanics	Mr. Puneet Kumar Mr. Arvind Kumar Singh	40	42	43
32	Manufacturing Processes	Dr. Munsih Chhabra Mr. Vipin Kumar	40	60	60
33	Applied Thermodynamics Lab	Dr. Abhishek Saxena	10	10	12
34	Manufacturing Processes Lab	Mr. Vipin Kumar	10	10	10
35	Computer Aided Machine Drawing-II Lab	Ms. Monika Singh	10	10	10

<b>Semester VI</b>					
36	Fluid Machinery	Mr. Deepak Singh	40	40	79
37	Theory Of Machines	Mr. Pravesh Chandra Mr. Atul Sharma	40	45	60
38	Machine Design-II	Dr. Nitin Agarwal	40	10	10
39	Refrigeration & Air-Conditioning	Mr. Rakesh Kumar Gangwar	40	44	85
40	Fluid Machinery Lab	Mr. Ganesh Sharma	10	10	12
41	Theory Of Machines Lab	Mr. Atul Sharma	10	10	10
42	Design And Simulation Lab II	Dr. Parul Gupta Dr. Nitin Agarwal Mr. Pravesh Chandra	10	10	10
43	Refrigeration & Airconditioning	Mr. Rakesh Kumar Gangwar	10	10	12
<b>Semester VIII</b>					
44	Renewable Energy Resources	Mr. Prashant Singh	40	40	41
45	Non-Destructive Testing	Mr. Sandeep Kumar	40	43	50
46	Advance Welding	Mr. Ganesh Sharma	40	48	72
47	Total Quality Management	Dr. Parul Gupta	40	40	46

#### **TH - Theory PR Practical**

#### **6. List of Expert Lecturers / Workshops Conducted**

Sr. No.	Expert Lecture Topic	Expert Speaker / Resource Person	Date of Conduction	Target Audience
1	Engineering Materials and their Properties.	Dr. Jayant Jain Associate Professor IIT, Delhi	20.08.2019	3 <sup>rd</sup> Semester E, 5 <sup>th</sup> Semester E
2	Production Engg.	Mr. Aditya Kumar Technical Expert Gate Master, Delhi	11.09.2019	7 <sup>th</sup> Semester E
3	Aptitude & Reasoning	Mr. Anuj Gupta Centre Expert T.I.M.E	12.10.2019	5 <sup>th</sup> Semester E



4	How to prepare for GATE & ESE Exam	Mr. Varun Singh Mr. Aditya Pal Technical Expert, Unacademy	19.02.2020	6 <sup>th</sup> Semester E
5	Materials to Advance Materials	Dr. Avinash Parashar Assistant professor IIT Roorkee	20.02.2020	4 <sup>th</sup> Semester E, 6 <sup>th</sup> Semester E, 8 <sup>th</sup> Semester D
6	Institution of mechanical Engg(IMEchE)	Dr. Syrish Raghuyal Chairman north india Mr. Piyush Sethi	29.02.2020	4 <sup>th</sup> Semester E, 6 <sup>th</sup> Semester E, 8 <sup>th</sup> Semester D
7.	Microstructural characterization	Dr. Sai Ramudu Meka Dr. Vivek Pancholi IIT Roorkee	16-05-2020	Faculty
8	Future Scope of Electical Vehicle(Webinar)	Mr. M Srinivasan Sr.Vehicle Dynamnics Engineer AMZ Automotive	23-05-2020	4 <sup>th</sup> Semester E, 6 <sup>th</sup> Semester E

#### 7. Activities for Slow and Advanced Lerner

Sr. No.	Name of Subject	Name of Faculty	Slow Learners Adv. Learners Identified (Yes / No)	No. of Sessions Conducted for Slow Learners	Activities/ Task Assigned for Advanced Learner
<b>ODD SEM.</b>					
1	Universal Human Values	Ms. Monika Singh	Yes		
2	Thermodynamics	Mr. Rakesh Kumar Gangwar	Yes		
3	Fluid Mechanics & Fluid Machines	Mr. Atul Sharma	Yes		
4	Materials Engineering	Mr. Sandeep Kumar	Yes		
5	Machine Design-I	Mr. Pravesh Chandra	Yes		
6	Heat & Mass Transfer	Mr. Arvind Kumar Singh	Yes		
7	Manufacturing Science & Technology-II	Mr. Vipin Kumar	Yes		

8	ICEngine And Compressors	Mr. Deepak Singh	Yes		
9	Mechatronics And Microprocessor	Ms. Bhavyanidhi Vats	Yes		
10	Design And Simulation Lab-I	Mr. Pravesh Chandra	Yes		
11	Human Value	Mr. Pavanendra Kumar	Yes		
12	Composite Materials	Mr. Sandeep Kumar	Yes		
13	Power Plant Engineering	Dr. Parul Gupta	Yes		
14	Supply Chain Management	Dr. Abhishek Saxena	Yes		
15	Operation Research	Mr. Ganesh Sharma	Yes		
16	CAD/CAM	Dr. Nitin Agarwal / Dr. Munish Chhabra	Yes		
17	Automobile Engineering	Mohd. Abdul Shafi	Yes		
<b>EVEN SEM.</b>					
18	Energy Science & Engineering	Ms. Bhavyanidhi Vats	Yes		
19	Applied Thermodynamics	Mr. Shubham Vyas	Yes		
20	Engineering Mechanics	Mr. Puneet Kumar /Mr Arvind Kumar Singh	Yes		
21	Manufacturing Processes	Dr. Munsih Chhabra /Mr. Vipin Kumar	Yes		
22	Fluid Machinery	Mr. Deepak Singh	Yes		
23	Theory Of Machines	Mr. Pravesh Chandra / Mr. Atul Sharma	Yes		
24	Machine Design-Ii	Dr. Nitin Agarwal	Yes		
25	Refrigeration & Air-Conditioning	Mr. Rakesh Kumar Gangwar	Yes		
26	Renewable Energy Resources	Mr. Prashant Singh	Yes		
27	Non-Destructive Testing	Mr. Sandeep Kumar	Yes		



28	Advance Welding	Mr. Ganesh Sharma	Yes		
29	Total Quality Management	Dr. Parul Gupta	Yes		

### 8. Counseling and Mentoring

Sr. No.	Particular	Yes/ No	Remark (if any)
1	Counselor Allocation	Yes	
2	Class wise Student Profile Record maintained	Yes	
3	Counselor Session Record maintained	Yes	
No. of Students in Department		No. of Full Teachers in Department	Counselor : Mentee Ratio
197		20	1:20

### 9. Internal Evaluation System

Sr. No.	Particular	Yes / No	Remark (if any)
1	Class test records	Yes	
2	Assignments	Yes	

### 10. Learning Outcome

Sr. No.	Particular	Yes / No	Remark (if any)
1	PO, PSO, CO are well stated	Yes	
2	Correlation of COs in PSOs and POs	Yes	
3	Course Outcome attainment calculated	Yes	
4	Program Specific Outcome & Program Outcome attainment through course outcome calculated	Yes	

### 11. Student Performance in University Exam I<sup>st</sup> year to IV<sup>th</sup> Year

*Dec 2015*

Sr. No.	Particular	
1	Number of students appeared	105
2	Number of All Clear Students	89
3	Number of students passed with distinction	28
4	Number of students passed with COP	02
7	Number of Students Failed	14
8	Passing Percentage	84.76

### Section IV: Structured Feedback

Sr. No.	Particular	Yes / No	Remark (if any)
1	Student feedback on teaching learning conducted & analyzed	Yes	
2	Student exit survey conducted & analyzed	Yes	
3	Alumni feedback conducted & analyzed	Yes	

### Section V: Research, Innovation, Publication, patent

#### 12. Research grants, projects completed and ongoing from funding agencies (like SPPU, BCUD, UGC, AICTE, DST)

Sr. No.	Principal Investigator	Title of Project	Funding Agency	Amount Lakh	Remark (if any)
1	Dr. Nitin Agarwal	To improve the efficiency of a solar photovoltaic using metallic fins filled with Phase change material	Dr. A P J Abdul Kalam Technical University, Lucknow	Rs 480000	---

### 13. Patent

S.No.	Name of Applicant	Patent Title	Application No.	Publication Date
1.	Dr. Parul Gupta	Mobile, small size and renewable energy based power generating system useful for remote areas	201911022986A	21.06.2019
2.	Dr. Parul Gupta	Method for data compression and encryption for digital communication based on symbols in information source	201911028221A	19.07.2019
3.	Dr. Parul Gupta	Method of Computer added progressive die design with energy conservation	201941037095	20.09.2019
4.	Dr. Parul Gupta	Method for minimizing power consumption of IoT battery using packet filtration approach	201911038413	27.09.2019
5	Dr. Parul Gupta	Machine learning based method for optimization of mobile health services and medical resources in rural and remote area	201921040631	18.10.2019
6.	Dr. Parul Gupta	Smart system for cooking gas production using electromagnetic generator.	201911043172	01.11.2019
7.	Dr. Parul Gupta	Fuzzy Based Image Segmentation Method for Defect Detection in Ceramics Tiles	201911043625	08.11.2019
8.	Dr. Parul Gupta	System and Method for Real-Time Status Notification of Group Chat without using Internet	201911044119	08.11.2019
9.	Dr. Parul Gupta	Refrigeration System of Clay Cool Chamber Using Solar Energy	201911053846	27.12.2019
10.	Dr. Parul Gupta	System of Agriculture Robot for Automatic Spraying Seeding, Harvesting and Monitoring Crop	201911052742	27.12.2019
11.	Dr. Parul Gupta	Humanoid Robot for Energy efficiency movement with optimized control	202011007560	06.03.2020

### 14. Faculty Publications

Number of Publication in National Journals	00
Number of Publication in International Journals	05
Number of Publication in National Conferences	00
Number of Publication in International Conferences	00



## Section VI: Collaborations & Linkages

### 15. Student Internships:

Sr. No.	Name of Student	Name of Sponsored Industry / Research Institute / Partnering Institution	Duration
1	Aaryan	BEL Kotdwar	17/06/2019 to 01/08/2019
2	Abhishek Kumar Singh	Northern Railway	10/06/2019 to 09/07/2019
3	Ajeet Morya	RCF, Kapurthala, Punjab	20/06/2019 to 18/07/2019
4	Akash Gautam	ABC transformers Pvt. Ltd.	14/06/2019 to 30/07/2019
5	Akash Kumar	CHW Forge Private Limited, Ghaziabad	01/06/2019 to 15/07/2019
6	Akash Yadav	RCF, Kapurthala, Punjab	20/06/2019 to 18/07/2019
7	Akash Mathur	Pram Engineers Pvt. Ltd.	26/06/2019 to 25/07/2019
8	Aman Mathur	Northern Railway	10/06/2019 to 09/07/2019
9	Aman Sisodia	RCF, Kapurthala, Punjab	20/06/2019 to 18/07/2019
10	Amit Kumar	Excelling Technologies , Moradabad	15/06/2019 to 30/07/2019
11	Amitesh Kushwaha	IIT Kanpur	17/06/2019 to 17/07/2020
12	Anant Tiwari	IIT Kanpur	17/06/2019 to 17/07/2020
13	Ankit Kumar	Dhampur Sugar Mills	20/06/2019 to 20/07/2019
14	Ankur Singh	Naini Papers Limited, Kashipur	11/06/2019 to 25/07/2019
15	Anuj Panwar	Dhampur Sugar Mills	15/06/2019 to 15/07/2019
16	Arjun Singh	Northern Railway, Moradabad	20/06/2019 to 19/07/2019
17	Arpit Kumar	BHEL, Ranipur, Haridwar	18/06/2019 to 17/07/2019

18	Ayush Rajput	Dhampur Sugar Mills	15/06/2019 to 15/07/2019
19	Deepak Pandey	BHEL, Ranipur, Haridwar	18/06/2019 to 17/07/2019
20	Dhaneshvar Chauhan	BHEL, Ranipur, Haridwar	18/06/2019 to 17/07/2019
21	Dhaves Saini	RACL Geartech Ltd.	11/06/2019 to 06/07/2019
22	Dinesh Kumar	BHEL, Ranipur, Haridwar	18/06/2019 to 17/07/2019
23	Dishant Pratap	Indian Railways	16/06/2019 to 15/07/2019
24	Gajendra Singh	CHW Forge Private Limited, Ghaziabad	01/06/2019 to 15/07/2019
25	Gaurav Verma	Shriram Piston & Rings Limited, Meerut Road ,Ghaziabad	24/06/2019 to 31/07/2019
26	Gurdeep Kumar	BHEL, Ranipur, Haridwar	18/06/2019 to 17/07/2019
27	Harsh Kaushik	Bharat Electronics Limited, Kotdwar	17/06/2019 to 1/08/2019
28	Harsh Thakur	Railway Coach factory, Kapurthala	19/06/2019 to 19/07/2019
29	Himanshu Choudhary	Indian Railway, Moradabad	20/06/2019 to 19/07/2019
30	Himanshu Sharma	Parle industries Rudrapur	20/06/2019 to 19/07/2019-
31	Jitendra Kumar	Bharat Heavy Electrical Limited	18/6/2019 to 17/7/2019
32	Jitendra Singh Saini	BHEL Haridwar	18/06/2019 to 17/07/2019
33	Karun Kumar Chauhan	Pasupati Acrylon Ltd. Kashipur Road , Thakurdwara	21/06/2019 to 02/08/2019
34	Kovit Kumar	Modi Sugar Mill, Modinagar	11/06/2019 to 26/07/2019
35	Krishna Kumar	BEL , Kotdwar	14/06/2019 to 02/08/2019
36	Laksha Kumar	Bharat Electronics Ltd. Kotdwar	14/06/2019 to 04/08/2019
37	Maneesh Chauhan	Tata Project Limited, Ambala City	15/06/2019 to 26/07/2019

38	Mohammad Faizi	Railway Coach Factory Kapurthala	20/06/2019 to 01/08/2019
39	Mohd. Areeb Saifi	BHEL, Haridwar	27/06/2019 to 26/07/2019
40	Mohd. Ahtesham	Bharat Electronics Ltd., Kotdwar	15/06/2019 to 14/07/2019
41	Mohd. Anas	Rail Coach Factory, Kapurthala, Punjab	20/06/2019 to 18/07/2019
42	Mohd. Ather	Bharat Heavy Electrical Limited, Haridwar	27/06/2019 to 26/07/2019
43	Mohd. Daniyal	Kanpur Plastipack Ltd	04/07/2019 to 03/08/2019
44	Mohd. Faiz	BHEL, Haridwar	27/06/2019 to 26/7/2019
45	Mohd. Faizan	Excelling Technologies , Moradabad	15/06/2019 to 30/07/2019
46	Mohd. Asim	Rail Coach Factory, Kapurthala, Punjab	20/06/2019 to 18/07/2019
47	Mohd. Faraz	IIT Mandi	16/06/2019 to 15/07/2019
48	Mohd. Saddam Husain	Kanpur Plastipack Ltd	04/07/2019 to 03/08/2019
49	Mudit Yadav	Rail Coach Factory Kapurthala	20/06/2019 to 18/07/2019
50	Mumtaz Khan	Ensenar Labs Pvt Ltd, Raghuvannahalli, Bangalore	17/06/2019 to 05/08/2019
51	Nawaz Ali	Rail Coach Factory Kapurthala	20/06/2019 to 18/07/2019
52	Neeraj Saini	Kalyani Technoforge Limited	10/06/2019 to 06/07/2019
53	Nitesh Kumar Saroj	RACL Geartech Ltd. Gajraula	11/06/19 to 06/07/2019
54	Nuzair Khan	Bharat Heavy Electrical Limited, Haridwar	27/06/2019 to 26/07/2019
55	Ovais Khan	Kanpur Plastipack Ltd.	04/07/2019 to 03/08/2019
56	Prince Tyagi	Railway Coach Factory, Kapurtala Punjab	20/06/2019 to 18/07/2019
57	Pulkit Dhariwal	RACL Geartech Ltd. Gajraula	07/06/19 to 06/07/19



58	Raja Kanchan	CHW Forge Private Limited, Ghaziabad	01/06/2019 to 15/07/2019
59	Raman Kaushik	Irrigation & Water Resources Dept. Bareilly	20/06/2019 to 30/07/2019
60	Ritesh Singh	Rail Coach Factory, Kapurthala	20/06/2019 to 01/08/2019
61	Sachin Kumar	Prince Pipes & Fitting Pvt. Ltd	01/07/2019 to 31/07/2019
62	Sachin Bhandari	Prima Technology Pvt. Ltd.	01/07/2019 to 25/07/2019
63	Sagar Kumar	Irrigation & Water Resources Dept. Bareilly	20/06/2019 to 30/07/2019
64	Salman	Koncept Hyundai Automobile	27/06/2019 to 27/07/2019
65	Santosh Verma	United Decorative Pvt. Ltd.	01/06/2019 to 30/07/2019
66	Sarthak Vyas	PMV Maltings Pvt. Ltd	22/06/2019 to 21/07/2019
67	Satyam Thakur	Rail Coach Factory, Kapurthala	20/06/2019 to 01/08/2019
68	Shashwat Yadav	Minda Industries	20/06/2019 to 30/07/2019
69	Shubham Kumar	Rail Coach Factory, Kapurthala	20/06/2019 to 18/07/2019
70	Sumit Kumar	BEL, Kotdwar	18/06/2019 to 30/07/2019
71	Ubaid Ur Rehman	Prince Pipes & Fitting Pvt. Ltd	01/06/2019 to 31/07/2019
72	Utkarsh Tyagi	Rail Coach Factory, Kapurthala	20/06/2019 to 18/07/2019
73	Varun Rastogi	IIT, Kanpur	17/06/2019 to 13/07/2019
74	Vikas Kumar	BEL, Kotdwar	17/06/2019 to 01/08/2019
75	Vishal Chaudhary	BEL, Kotdwar	17/06/2019 to 01/08/2019
76	Vishesh Kumar	R.V. Industrial Corporation	06/06/2019 to 20/07/2019
77	Vishnu Kumar Gautam	Prima Technology Pvt. Ltd.	01/06/2019 to 25/07/2019
78	Yash Rastogi	IIT, Kanpur	17/06/2019 to 13/07/2019

79	Ziaul Mustafa	Rail Coach Factory, Kapurthala	20/06/2019 to 18/07/2019
80	Mohd. Anas	C.L Gupta Export	20/06/2019 to 30/07/2019
81	Himanshu Chaudhary	RACL Gear Tech Ltd.	21/06/2019 to 27/07/2019
82	Mohd. Javed	Maruti Suzuki Arena	20/06/2019 to 19/07/2019
83	Ankur Saini	Prince Pipes & Fitting Pvt. Ltd	01/06/2019 to 31/07/2019
84	Anuj Pal S/o Rajkumar	BHEL, Rudrapur	18/06/2019 to 17/07/2019
85	Devraj Singh	Prince Pipes & Fitting Pvt. Ltd	01/06/2019 to 31/07/2019
86	Mohammad Junaid	Northern Railway Delhi	20/06/2019 to 30/07/2019
87	Mohammad Shariq	SKN Engineering	01/06/2019 to 31/07/2019
88	Ravi Arya	R.V. Industrial Corporation	10/06/2019 to 20/07/2019
89	Rishabh Dhyani	RACL Gear Tech Ltd.	21/06/2019 to 27/07/2019
90	Shubham Raj	UPSRTC , Moradabad	14/06/2019 to 13/07/2019
91	Varun Chhatrawal	UPSRTC ,Moradabad	14/06/2019 to 13/07/2019

#### 16. Projects

Sr. No.	Project Title	Name of Student	Name of Guide/ co-guide
1	Fabrication and optimization of novel parabolic trough collector (PTC) solar water heater for domestic applications.	Varun Rastogi Yash Rastogi Ankur Saini Yasharth Gautam	Mr. Arvind Kr. Singh
2	Effective use of thermal potential of solar photovoltaic module. An approach to solar PV-TE Hybrid system.	Ubaid Ur Rehman Vishesh Kumar Santosh Verma Salman Utkarsh Tyagi	Dr. Nitin Agarwal
3	Design and Fabrication of Mechanically efficient transportation trolley.	Ankur Singh Kovit Kumar Shubham Kumar Ovais Khan Ankit Kumar	Mr. Puneet Kumar

4	Fabrication of epoxy based composite by reinforcing carbon and glass fibers to enhance desired properties.	Aman Sisodia Ajeet Morya Akash Yadav Ayush Rajput Dhaneswar Chauhan	Ms. Monika Singh
5	Design and fabrication of Shredder- cum-grinder for E-waste recycling plant.	Mohd. Faizan Mohd. Areeb Nitesh Kumar Amit Kumar Ziaul Mustafa	Mohd. Talha Khan
6	Design and Fabrication of Three-wheeler segway.	Mohd. Javed Mohd Anas Devraj Singh Mohd. Junaid Mohd. Shariq	Dr. Parul Gupta
7	Design and fabrication of automatic medicine crushing machine.	Pulkit Dhariwal Anant Tiwari Anuj Panwar Arpit Kumar Akash Mathur	Mr. Shubham Vyas
8	Friction stir welding of aluminium and study of its microstructure.	Sachin Bhandari Mudit Yadav Sagar Kumar Mohd. Asim Nawaz Ali	Mr. Vipin Kumar
9	Desalination of salt water using solar thermal energy.	Sarthak Vyas Shashwat Yadav Sarabjit Singh Himanshu Choudhary Srikant Siddharth	Mr. Shubham Vyas
10	Design and Fabrication of multifunctioning shaft based machine using Bevel Gears.	Mohd. Faraz Mohd. Daniyal Gajendra Singh Mohd. Anas Mohd. Shazeb	Mr. Sandeep Kumar
11	Design & fabrication of kinetic energy recovery system in bicycle.	Himanshu Sharma Karun Chauhan Aryan Chauhan Ahtesham Maneesh Chauhan	Mr. Deepak Singh
12	Design & fabrication of Hybrid Solar Dryer.	Harsh Kaushik Laksh Kumar Krishna Kumar	Mr. Prashant Singh



		Dinesh Kumar Raja Kanchan	
13	Design and fabrication of low cost paper bag making machine.	Deepak Pandey Jitendra Kumar Amitesh Kushwaha Arjun Singh Neeraj Saini	Dr. Munish Chhabra
14	Analysis of temperature variation in Li- ion battery at different loading conditions on prototype scale for electric vehicle.	Harsh Thakur Jitendra Singh Saini Gurdeep Kumar Priyanshu Kumar Rohan Dhariwal	Ms. Bhavya Nidhi Vats
15	Fabrication of pesticides sprinkling robot-pestobot.	Himanshu Chaudhary Dishant Pratap Gaurav Verma Faizi Prince Tyagi	Mr. Ganesh Kumar
16	Design and fabrication of paddle wheel operated UF+UV water purifier.	Raman Kaushik Ritesh Singh Akash Kumar Sachin Kumar Vaibhav Singh	Mr. Pavendra Kumar
17	Robotic Arm to take sample of infected person for COVID-19 test.	Nuzaif Khan Mumtaz Khan Faiz Mohd Athar Saddam Husain	Mr. Pravesh Chandra
18	Design optimization of a standard pressure cooker for solar cooking & evaluation of its thermal performance for PDC.	Satyam Thakur Shubham Raj Varun Chatrawal Anuj Pal	Dr. Abhishek Saxena
19	Design and modelling of a linear generator for wave energy conversions.	Vishnu Kr. Gautam Vikas Kumar Ravi Arya Vishal Chaudhary Sumit Kumar	Mr. Rakesh Kr. Gangwar
20	Fabrication of Handicapped steering Tri-cycle.	Abhishek Kr. Singh Akash Gautam Dhaves Saini Aman Mathur Kamal Prakash Singh Lodhi	Mr. Atul Sharma

### 17. Industrial Visits - T

Sr. No.	Name of Industry / Company Research Institute / Partnering Institution	Date of Visit	Number of Student Participated
1	UNO MINDA, Rudrapur, Uttarakhand	24/09/2019	29 4 <sup>th</sup> year ME & 11 B. Voc. 1 <sup>st</sup> year
2	KVS Pvt. Ltd., Kashipur, Uttarakhand	21/11/2019	41 3 <sup>rd</sup> year ME
3	Spark Minda Pvt. Ltd. , Pantnagar, Uttarakhand	11/02/2020	33 2 <sup>nd</sup> year ME & 03 B.Voc. 1 <sup>st</sup> year (AMT)
4	Parle Biscuits Pvt. Ltd. Pantnagar, Rudrapur, Uttarakhand	03/03/2020	44 3 <sup>rd</sup> year ME

### 18. Functional Memorandum of Understanding (MoU) - T

Sr. No.	Name of Industry / Company Research Institute / Partnering Institution	Date of commencement	Duration
1	Sainik Enterprises, Moradabad	07/03/2018	Till Date
2	Metal Handicrafts Service Centre, Moradabad under control of Ministry of Textile, Govt. of India	13/04/2018	Till Date
3	AKGEC Skills Pvt. Ltd., Ghaziabad	19/04/2018	3 years
4	Sofcon Pvt. Ltd., Delhi	18/04/2018	3 years
5	Excelling Technologies	15/03/2019	Till Date

## Section VII: Student Progression

### 19. Placements

Sr. No.	Name of Students	Name of Com an
1.	Aman Sisodia	Pashupati Acrylon Ltd.
2.	Anant Tiwari	Voltaz Pvt. Ltd. Rudarpur
3.	Deepak Pandey	Pay's Pvt. Ltd. Bangluru
4.	Gaurav Verma	Marque Impaex Pvt. Ltd.
5.	Harsh Kaushik	C.L. Gupta Export Ltd.
6.	Jitendra Singh Saini	Pay's Pvt. Ltd. Bangluru
7.	Laksha Kumar	Sainik Enterprises Ltd.
8.	Mohd. Faizan	Marque Impaex Pvt. Ltd.
9.	Raman Kaushik	Pashupati Acrylon Ltd.
10.	Sachin Bhandari	Voltaz Pvt. Ltd. Rudarpur
11.	Sagar Kumar	Voltaz Pvt. Ltd. Rudarpur
12.	Utkarsh Tyagi	Balaji Pvt. Ltd. Sitarganz
13.	Varun Rastogi	Voltaz Pvt. Ltd. Rudarpur
14.	Vishal Chaudhary	Balaji Pvt. Ltd. Sitarganz
15.	Vishnu Kumar Gautam	Marque Impex Pvt. Ltd.
16.	Yash Rastogi	Marque Impex Pvt. Ltd.

### 20. Higher Education

Sr. No.	Name of Students	Name of Institution Admitted To	Name of Program Admitted To
1	Yasharth Gautam	Texas University ,Austin	M.S. (GRE)
2	Mohd. Javed	Concordia University, Canada	JRF
3	Ankur Singh	ISM Dhanwad	M.Tech (GATE)
4	Dishant Pratap	NIT Surat	M.Tech (GATE)



## Section VIII Activity Conducted / Organized by Department

### 21. Technical Event / Workshop for Students

Sr. No.	Name of Event / Workshop	Organized under (Department / Student Association/ Profession Chapter/ Student Club)	Date of Event	Level (University /State/National /International)	No. Of Participants
1.	IMECHE EXPERT TALK Dr.SyrishRaghuyal MD Positive Plastics and Chairman North India Region, IMECHE	IMECHE	29-02-2020	National	110
2	IMECHE NORTH INDIA SOFE 2019 Mr. Piyush Sethi Chairman YM, IMECHE	IMECHE	21-09-2019	National	02
3	FELICITATION OF STUDENTS PARTICIPATED IN NORTH INDIA SOFE 2019 & AWARENESS TALK BY MR. UBAID UR REHMAN	IMECHE	26-09-2019	National	07
4	Auditions	MESS	14Aug 2019	Institute	ME students
5	WIZPYRAM	MESS	04 sept 2019	Institute	All Students of MITGI
6	SNAPFIESTA	MESS	09 Oct 2019	Institute	All Students of MITGI
7	DIYARI	MESS	16 Oct 2019	Institute	All Students of MITGI

8	NOSTALGIA	MESS	12 Feb 2020	Institute	All Students of MITGI
9	MOTHERS DAY IN LOCKDOWN WAY	MESS	11 May 2020	Institute	All Students of MITGI

## 22. FDP / Workshop/ STTP)/ Conference for faculty

Sr. No.	Name of Event / Workshop	Date of Event	Level ( University/State/ National/International	No. of Participants
1	FDP	20 <sup>th</sup> Nov-3 <sup>rd</sup> Dec-2019	National	40

## Section IX: Achievements

### 23. Awards and Prizes received by students

Sr. No.	Name of Student	Achievement / Position / Prize	Event Name Details	Organized by
1	Ubaid ur rehman	20,000 Rs	<b>Project Competition</b> Proposal "Effective use of Thermal Potential of Solar Photovoltaic Module - An approach to Solar PV-TE Hybrid System" funded by UPCST.	UPCST
2	Nuzaif Khan, Mumtaz Khan, Faiz, Mohd. Athar	25,000 Rs	Project "Robotic arm for taking sample of infected person for COVID 19 test" was funded in AKTU <b>FELICITATION PROGRAM</b>	AKTU
3	Mayank Anand	IIIrd	Robo Race (AKTU Zonal)	Rakshpal Bhadur Management and Engg Institute

4	Anurag vashishth	IIIrd	Robo Race (AKTU Zonal)	Rakshpal Bhadur Management and Engg Institute
5	Abdul Kabir	IIIrd	Robo Race (AKTU Zonal)	Rakshpal Bhadur Management and Engg Institute
6	Varun Rastogi	Paper Accepted	International conference	Amity, Noida
7	Mr. Ubaid Ur Rehman	Runner Up (North India -India Semifinal)	Speak Out for Engineers -2019	Imeche
8	Deepak Pandey	Second	Relay 4*400 (AKTU State)	BBD, Lucknow
9	Sandeep Sharma	Third	Relay 4*100 (AKTU State)	BBD, Lucknow
10	Kartik Chaudhary	First	Volley Ball (AKTU Zonal)	MIT, MBD
11	Kartik Chaudhary	second	Basket Ball (AKTU Zonal)	MIT, MBD
12	Sandeep Sharma	First	Relay 4*100 (AKTU Zonal)	MIT, MBD
13	Sandeep Sharma	First	long jump (AKTU Zonal)	MIT, MBD
14	Sandeep Sharma	Second	Long Jump (AKTU State)	BBD, Lucknow
15	Deepak Pandey	First	Relay 4*400 (AKTU Zonal)	MIT, MBD
16	Deepak Pandey	Second	800 (AKTU Zonal)	MIT, MBD
17	Deepak Pandey	First	Volley ball (AKTU Zonal)	MIT, MBD
18	Abhishek Singh	Gold	Badminton (Aktu Zonal)	MIT, MBD
19	Apurv Chandel	Gold	Badminton (Aktu Zonal)	MIT, MBD



20	Abhishek Singh	Silver	Badminton (Aktu State)	BBD, Lucknow
21	Shyam Sunder Das	Runner Up (North India -India Semifinal)	Speak Out for Engineers -2019	Imeche
22	Abhishek Singh	FIRST	Group song in pravah 2020	I.E.T LUCKNOW
23	Sourabh kumar	FIRST	Group song in pravah 2021	I.E.T LUCKNOW
24	Siddharth Bansal	THIRD	Skit/play	SRMS BAREILLY
25	Prashant tiwari	THIRD	Skit/play	SRMS BAREILLY
26	Vinayak verma	THIRD	Skit/play	SRMS BAREILLY
27	Sourabh kumar	FIRST	Group song	SRMS BAREILLY

**24. Participation of teachers in various activities as members of committees at University level, State level, National level, International level bodies**

Sr. No.	Name of Faculty	Members of committees at University level / State level /international Level as
1	Mr. Pavanendra Kumar	AICTE Level
2	Mohd. Talha Khan	University level

**25. Awards / Prizes and recognitions received by teachers at university, state, national and international level:**

Sr. No.	Name of Faculty	Name of Award
1	Dr. Parul Gupta	Contribution to the Technical Education and Loyalty of 20 Years
2	Dr. Parul Gupta	Young Researcher in Mechanical Engineering
3	Dr. Parul Gupta	Best Senior Researcher Award (Male) (Above 40 Years)
4	Dr. Parul Gupta	Academic Excellence Award 2020
5	Dr. Parul Gupta	Excellent Work in the field of Technical Education

**26. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.**

S.No.	Name of Faculty	FDP	Organised By	Duration
1.	Dr. Munish Chhabra	Faculty Development Programme on "Smart Energy Systems"	MIT Moradabad	01 week
2.		Executive Leadership Programme of Art of Living	Dr. A.P.J. Abdul Kalam Technical University, Lucknow at Rishikesh	03 days
3.		Faculty Development Programme on "Product Realization Using 3D Printing"	IIT Kanpur	01 Week
4.		Faculty Development Program on "Emerging Trends In Mechanical Engineering Science & Green Energy"	Mechanical Engineering Department, MIT Moradabad	02 weeks
5.		Faculty Development Programme on "Outcome Based Pedagogic Principles For Effective Teaching"	MIT Moradabad	01 week
6.		Management Development Programme on Leadership Development	IIM Lucknow	03 days
7.		NPTEL Online Certification Course on NBA Accreditation And Teaching-Learning in Engineering (NATE)	NPTEL	12 weeks
8.	Mr. Puneet Kumar	Faculty Development Program on "Emerging Trends In Mechanical Engineering Science & Green Energy"	Mechanical Engineering Department, MIT Moradabad	02 weeks
9.		Faculty Development Programme on "Outcome Based Pedagogic Principles For Effective Teaching"	MIT Moradabad	01 week
10.		Faculty Development Programme on "Product Development"	IIT Kanpur	01 week

11.		NPTEL Online Certification Course on NBA Accreditation And Teaching-Learning in Engineering (NATE)	NPTEL	12 weeks
12.	Mr. Rakesh Kumar Gangwar	Faculty Development Program on “Emerging Trends In Mechanical Engineering Science & Green Energy	Mechanical Engineering Department, MIT Moradabad	02 weeks
13.		Faculty Development Programme on “Outcome Based Pedagogic Principles For Effective Teaching”	MIT Moradabad	01 week
14.		NPTEL Online Certification Course on NBA Accreditation And Teaching-Learning in Engineering (NATE)	NPTEL	12 weeks
15.	Mr. Pavanendra Kumar	Faculty Development Program on “Emerging Trends In Mechanical Engineering Science & Green Energy	Mechanical Engineering Department, MIT Moradabad	02 weeks
16.		Faculty Development Programme on “Outcome Based Pedagogic Principles For Effective Teaching”	MIT Moradabad	01 week
17.		NPTEL Online Certification Course on NBA Accreditation And Teaching-Learning in Engineering (NATE)	NPTEL	12 weeks
18	Mr. Pravesh Chandra	Pedalogy in manufacturing process	IIT	01 week
19.	Mr. Deepak Singh	Faculty Development Programme on “Smart Energy Systems”	MIT Moradabad	01 week
20.		Faculty Development Programme on “Advancement in Phase change material based thermal and renewable energy techniques”	Lakireddy bali Reddy college of Engineering (Autonomous) Mylavaram	01 week



21.		Faculty Development Programme on "Additive Manufacturing with Interdisciplinary Applications"	Dr. B.R. Ambedker National Institute of Technology, Jalandhar	01 week
22.		Faculty Development Program on "Emerging Trends In Mechanical Engineering Science & Green Energy"	Mechanical Engineering Department, MIT Moradabad	02 weeks
23.		Faculty Development Programme on "Outcome Based Pedagogic Principles For Effective Teaching"	MIT Moradabad	01 week
24.	Ganesh Sharma	Faculty Development Programme on "Smart Energy Systems"	MIT Moradabad	01 week
25.		Executive Leadership Programme of Art of Living	Dr. A.P.J. Abdul Kalam Technical University, Lucknow at Rishikesh	03 days
26.		Faculty Development Program on "Emerging Trends In Mechanical Engineering Science & Green Energy"	Mechanical Engineering Department, MIT Moradabad	02 weeks
27.		Faculty Development Programme on "Outcome Based Pedagogic Principles For Effective Teaching"	MIT Moradabad	01 week
28.		NPTEL Online Certification Course on NBA Accreditation And Teaching-Learning in Engineering (NATE)	NPTEL	12 weeks
29.	Mohd Talha Khan	Design Thinking and Strategy for Innovation	IIM lucknow	03 days
30.		Faculty Development Program on "Emerging Trends In Mechanical Engineering Science & Green Energy"	Mechanical Engineering Department, MIT Moradabad	02 weeks
31		Faculty Development Programme on "Outcome Based Pedagogic	MIT Moradabad	01 week

		Principles For Effective Teaching”		
32	Prashant Singh	Non-Conventional Energy Resources	NPTEL-AICTE	12 weeks
33		Green Tribology: Design of Biodegradable Cutting Fluids, Composite Materials and Environment Friendly Lubricant for Industries	MIT Moradabad Department of Mechanical Engineering	01 week
34		Faculty Development Programme on “Experience in solar Energy: Challenge and Opportunity”	Pimpri Chinchwad College of Engineering (PCCOE, Pune)	01 week
35		Faculty Development Programme on “Outcome Based Pedagogic Principles For Effective Teaching”	MIT Moradabad	01 week
36	Shubham Vyas	Faculty Development Programme on “Smart Energy Systems”	MIT Moradabad	01 week
37		Faculty Development Program on “Emerging Trends In Mechanical Engineering Science & Green Energy	Mechanical Engineering Department, MIT Moradabad	02 weeks
38		Faculty Development Programme on “Outcome Based Pedagogic Principles For Effective Teaching”	MIT Moradabad	01 week
39		NPTEL Online Certification Course on NBA Accreditation And Teaching-Learning in Engineering (NATE)	NPTEL	12 weeks
40		Transforming Education with Industry 4.0	Jaypee University of Information Technology, Solan	01 week
41	Arvind Kumar Singh	Faculty Development Program on “Modelling and optimization techniques for materials and Manufacturing processes”	Lakireddy bali reddy college of engineering	01 week

42	Sandeep Kumar	Faculty Development Programme on "Smart Energy Systems"	MIT Moradabad	01 week
43		Faculty Development Program on "Emerging Trends In Mechanical Engineering Science & Green Energy	Mechanical Engineering Department, MIT Moradabad	02 weeks
44		NPTEL Online Certification Course on NBA Accreditation And Teaching-Learning in Engineering (NATE)	NPTEL	12 weeks
45		Faculty Development Programme on "Additive Manufacturing with Interdisciplinary Applications"	Dr. B.R. Ambedker National Institute of Technology, Jalandhar	01 week

A. Observation of Audit Team

1. Need to work on more Research projects
2. Focus on organising Industrial visits.

B. Recommendation of Audit Team

1. Technical trainings to develop skills in students to be organised.

Signature  
Team member

Signature  
Team member

Signature  
Chairman

