



# Moradabad Institute of Technology, Moradabad

## Academic Audit (Form-1)

(Academic Year – 2016-17)

Department: MECHANICAL ENGINEERING

Semester: Odd

Head of Department: Dr. Parul Gupta

Date of Audit: 20/07/2016

Activity	Completed or not	Remarks
Department Academic Calendar	Completed	
Subject Choices	Completed	
Elective offered	Completed	
Load Distribution	Completed	
Departmental Duties Distribution (odd)	Completed	
Timetable	Completed	
Course Files/ Lecture Plan	Completed	
Lab Manuals/ Lab Plan	Completed	
Mentors Allocation	Completed	
CO's	Completed	
CO-PO Mapping	Completed	
Technical Manpower allocation	Completed	
Lab OC's	Completed	
Class OC's	Completed	

Mr. Pavanendra Kumar  
(Assistant Professor)

Dr. Munish Chhabra  
(Associate Professor)  
Professor & Head  
Deptt. of Mechanical Engg.  
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# Moradabad Institute of Technology, Moradabad

## Academic Audit (Form 2)

(Academic Year –2016-17 )

Department: Mechanical Engineering

Semester: Odd

Head of Department: Dr. Munish Chhabra


Date of Audit: 14/01/2017

### I.

Activity	Completed or not	Remarks
Adherence of Lecture Plan / Lab Plan	Completed	
Result Analysis of Previous Semester	Completed	
CO Attainment of Previous Semester	Completed	
Course Exit Surveys	Completed	
PO Attainments (Even Sem)	Completed	
Usage of ICT	Completed	

### II. Lectures and Lab taken

	Name of Faculty	Subject Name	Lectures/Labs Conduction
1.	Prof. (Dr.)N.K. Sharma (NKS)	Thermodynamics	45
		Thermodynamics	48
2.	Dr. Parul Gupta (PG)	Total Quality ManagNMENT	40
		Workshop Practice Lab	11
3.	Dr. Munish Chhabra (MC)	Computer Aided Manufacturing	41
		Computer Aided Manufacturing Lab	10
4.	Dr. Nitin Agarwal (NL)	Computer Aided Design	41
		Computer Aided Design Lab	11
5.	Mr. Puneet Kumar (PK)	Elements of Mechanical Engg	50
		Elements of Mechanical Engg Lab	12
		Workshop Practice Lab	11

  
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6.	Mr. Pavanendra Kumar (PVK)	Elements of Mechanical Engg	52
		Elements of Mechanical Engg Lab	12
		Workshop Practice Lab	11
		Project	10
7.	Dr. Abhishek Saxena (ABS)	Total Quality Management	40
		Computer Aided Manufacturing Lab	10
		Workshop Practice Lab	11
		SEMINAR	12
8.	Mr. Rakesh K. Gangwar (RKG)	Elements of Mechanical Engg	62
		Elements of Mechanical Engg Lab	12
		Workshop Practice Lab	11
		Project	10
9.	Mr. Vipin Kumar (VK)	Manufacturing Sc-II	41
		Manufacturing Sc-II	40
		Manufacturing Sc-II Lab	11
		MST LAB	10
10.	Mr. Sumit K. Singh (SKS)	Fluid Mechanics	42
		Fluid Mechanics	41
		Fluid Mechanics Lab	10
		Automobile Lab	10
11.	Pravesh Chandra Sharma (PVC)	Automobile	40
		Automobile	41
		SEMINAR	12
		MST LAB	10
		Automobile Lab	10
12.	Mr. Deepak Singh (DSG)	Thermal &Hydraulic Machine	40
		Thermal &Hydraulic Machine	40
		Thermal &Hydraulic Machine Lab	11
13.	Akhilesh Kumar (AKR)	HMT	40
		MACHINE DRAWING Lab	10
		MST Lab	10
14.	Mohd. Abdul Shaafi (MAS)	Manufacturing Science-II	41
		Manufacturing Science-II Lab	10
		MACHINE DRAWING Lab	10
		Computer Aided Manufacturing Lab	11
		Automobile Lab	10
15.	Mr. Sanjay Kumar (SKU)	Computer Aided Manufacturing	41
		Computer Aided Manufacturing	40
		Computer Aided Manufacturing Lab	10
		MST LAB	10
		SEMINAR	12
16.	Mohd. Talha Khan (MTK)	I.C. Engines & Compressors	41
		Thermodynamics Lab	11
		Workshop Practice Lab	10
		SEMINAR	12
17.	Mr. Vinay Singh (VSH)	Mechanics Of Solid	48
		Mechanics Of Solid	46

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		MST LAB	11
		Manufacturing Science-II Lab	10
18.	Mr. Arvind Kumar (AKS)	Elements of Mechanical Engg	52
		Elements of Mechanical Engg Lab	12
		Workshop Practice Lab	11
		SEMINAR	12
		Fluid Mechanics Lab	10
19.	Mr. Vineet Kumar (VIT)	Computer Aided Design	41
		Computer Aided Design	40
		Computer Aided Design Lab	10
		Material Science & Testing Lab	11
20.	Mr. Atul Kr. Sharma (ATS)	Kinematics of Machine	41
		MACHINE DRAWING Lab	11
		Computer Aided Design Lab	10
		Machine Design-I Lab	10
21.	Mr. Yogesh Rawat (YR)	Thermodynamics	45
		Thermodynamics	42
		Thermodynamics Lab	10
		Manufacturing Science-II Lab	10
		Thermal & Hydraulic Machine Lab	10
22. 1	Mr. Akash Roy (ARY)	Kinematics of Machine	43
6		Kinematics of Machine	10
		FM LAB	10
		Material Science & Testing Lab	10
		Project	10
23.	Mr. Anil Kumar (ANK)	Material Science	40
		HMT	42
		Material Science & Testing Lab	10
		MACHINE DRAWING Lab	11
		SEMINAR	12
24.	Ms. Monika Singh (MIS)	Automobile	41
		Fluid Mechanics	42
		Automobile Lab	10
		Thermodynamics Lab	11
25.	Mr. Ankur Melhotra (AMH)	Machine Design-I	40
		Mechanics Of Solid	42
		Machine Design-I Lab	10
26.	Mr. Sanjeev Kumar (SAK)	Elements of Mechanical Engg	48
		Elements of Mechanical Engg Lab	11
		Workshop Practice Lab	11
		Manufacturing Science-II Lab	10

  
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27.	Mr. Sachin Kawatra (SKW)	I.C. Engines & Compressors	41
		I.C. Engines & Compressors	40
		HMT LAB	10
		Manufacturing Science-II Lab	10
		Automobile Lab	10
28.	Mr. O.P. Sahani (OPS)	Machine Design-I	42
		Machine Design-I	43
		Machine Design-I Lab	11
		Computer Aided Design Lab	10
29.	Ms. Bhavyanidhi Vats (BNV)	Total Quality Management	40
		CAEG LAB	11
30.	Mr. Sandeep Kumar (SDP)	Material Science	40
		Material Science	11
		Thermodynamics Lab	11
		MACHINE DRAWING Lab	10
		Manufacturing Science-II Lab	10


### III. Activities conducted for slow and fast learners

#### Action Plan for Slow Learner

- (1) A question bank based on the previous years' question papers, is provided to the students for better preparation.
- (2) Regular monitoring of their progress is done by observing their performance in lectures, tutorials and labs.
- (3) Separate special classes for weak students are arranged. It helps in clarifying the doubts and re-explaining of difficult topics to such students.

#### Action Plan for Fast Learner

- (1) Questions of competitive exam level regularly taught to students.
- (2) Each topic of the syllabus as well as additional topics/case studies discussed with students thoroughly.
- (3) Students are encouraged to read different books and present various topics as seminar in order to enhance the presentation and communication skills

  
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#### IV. Training/value-added courses organized for the Students


Sno.	Topic	Duration	Number of participants
1	ED-Cell course	5 <sup>th</sup> /3 <sup>rd</sup>	30
2	ED-Cell course	6 <sup>th</sup> /3 <sup>rd</sup>	55
3	PDP classes	3 <sup>rd</sup> /2 <sup>nd</sup>	151
4	PDP classes	4 <sup>th</sup> /2 <sup>nd</sup>	151
5	PDP classes	5 <sup>th</sup> /3 <sup>rd</sup>	162
6	PDP classes	6 <sup>th</sup> /3 <sup>rd</sup>	162
7	PDP classes	7 <sup>th</sup> /4 <sup>th</sup>	173

#### V. Guest Lectures Conducted for the Students

Sno.	Topic	Resource Person	Date
1.	Mind Matters	Mr. Rohit Agarwal Mr. Abhinav Singh	27.08.2016
2.	Vibrations and its applications	Dr. Rakesh Saxena	04.10.2016
3.	An Introduction to solid Works	Mr. Pravin Singh	21.10.2016

#### VI. Allocation of Final Year Projects

GrNo	Name of Students	Project Title	Guide
1	Harsh Kumar Arora Abhishek Nath Sharma Anubhav Tyagi	Fabrication of Hydro- power plant.	Mr. Vineet Kumar
2	Aayush Agarwal Akshay Dhall Aman Kr. Dubey	Design and fabrication of rolling fluid turbine.	Mr. Deepak Singh
	Anmol Chawla	Design and fabrication of compressor	Mr. Sandeep Kumar

  
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3	Arpit Gaur	less Refrigeration system.	
	Amod Kumar		
	Avinash Singh		
4	Anuj Kumar Gupta	Design & fabrication of working model of river cleaning machine.	Mr. Deepak Singh
	Ankur Tiwari		
	Akashdeep		
	Ashwani Bhardwaj		
5	Amit Kumar Tiwari	Design and fabrication of compressed solar air conditioner.	Mr. Pravesh Chandra
	Akeel Ahmad		
	Arvind Kumar		
	Ahsan Kamal Ansari		
6	Akshit Sharma	The effect of Alumina and Titania on the Mechanical properties of epoxy resin.	Mr. Sandeep Kumar
	Akshay Kr. Sharma		
	Aeshwary Mudgal		
	Ameer-Uz-Zama		
7	Deepak Daksh	Fabrication of kinetic energy recovery system for Bicycle.	Mr. Aakash Roy
	Divyanshu		
	Imtiyaz Hussain		
	Gaurav Singh		
8	Gajendra S. Chauhan	Design & fabrication of model of electricity generation by train wheel.	Mohd. Abdul Shaafi
	Firoz Aalam		
	Harsh Kumar		
9	Anmol Agarwal	360 degree dumper.	Mr. O.P. Sahani
	Areeb-Ur-Rehman Shamsi		
	Arvind Pandey		
	Ankit Kumar		
	Deepak Kr. Singh	Fabrication of motorised multibolt spanner.	Mr. Yogesh Rawat
	Bhupendra Kumar		

  
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10	Deepak Kumar		
	Depanshu Chaudhary		
11	Ankush Arora	Six leg kinematic walker.	Ms. Monika Singh
	Ankit Gahlout		
	Abhishek Rajput		
	Keshav Singh		
12	Harsh Pandey	Designing and fabrication of automatic gear shifting in two wheelers.	Mohd. Talha Khan
	Lalit Kumar Singh		
	Dinesh		
	Atul Kr. Singh		
13	Anurag Agarwal	Automatic tyre inflation system for automobile application.	Mr. Akash Roy
	Ankush Kumar		
	Abhinav Chauhan		
	Afzal Hussain		
14	Abhishek Gautam	Fabrication of smart vice using pneumatic operated mechanism.	Dr. Parul Gupta
	Ashish Kumar		
	Aayush		
	Ayush Bhatnagar		
15	Krishna Pal Singh	Design and fabrication of model of Automatic lift braking system.	Mr. Yogesh Rawat
	Anirudh Chaudhary		
	Brijpal Singh		
	Amit Dhanger		
16	Chetan Joshi	Voice control wheel chair.	Mr. Sanjay Kumar
	Amandeep Beniwal		
	Himanshu Kumar		
	Gaurav Kr. Saini		
17	Rishabh Arora	Design & fabrication of Quadcopter.	Mr. Puneet Kumar
	Sanjay		

  
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	Rishabh Kush		
	Nitin Kumar		
18	Rahul Kr. Verma	Hybrid Car	Mr. Akhilesh Kumar
	Sachin Tomer		
	Rahul Chaurasia		
19	Rachit Chauhan	Fabrication of Hybrid power generation system using solar and wind energy.	Mr. Sachin Kawatra
	Raghav Mittal		
	Loeksh Bhardwaj		
	Mohd. Farmaan		
20	Rajat Sharma	Fabrication of pneumatic monotube shock absorber.	Ms. Bhavya Nidhi Vats
	Nirankar Singh		
	Ravindar		
	Ravi Kumar		
21	Pallav Kr. Sharma	Domestic power plant.	Mr. Sanjay Kumar
	Mohit Kumar		
	Rajat Diwakar		
	Praveen Kumar		
22	Mohd. Shadan	Design & fabrication of Multi way hacksaw machine.	Mr. Pavendra Kumar
	Rishunk Saxena		
	Nikhil Chauhan		
	Lovelesh Sharma		
23	Peeyush Singh	Kinetic energy recovery system.	Mr. Sahin Kawatra
	Parag Saxena		
	Nishant Patel		
	Rahul		
24	Sachin Kumar Pal	Comparative analysis of COP using R134a & Hydrocarbon R-290/600a.	Mr. Yogesh Rawat
	Rajeev Gautam		
	Prateek Kumar Singh		

  
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	Shanidev Chaurasia		
25	Lokesh Singh	Fabrication of automated rotary car parking system.	Dr. Nitin Agarwal
	Salman Khushnood		
	Mayank Kumar		
	Paras Bharadwaj		
26	Mohd. Danish	Design & fabrication of small scale elevator.	Mr. Ankur Malhotra
	Lokendra		
	Rachit Chaudhary		
	Mohd. Anas		
27	Mohd. Taj Saifi	Solar air heater	Dr. Abhishek Saxena
	Lavjeet Chaudhary		
	Mohd. Yusuf		
	Sharukh Khan		
28	Mihir Milan Gupta	Fabrication of Carcopter.	Mr. Vipin Kumar
	Salim		
	Rishabh Chatrawal		
	Nakul Sharma		
29	Piyush Saxena	Fabrication of air driven engine.	Dr. Nitin Agarwal
	Mohd. Monis		
	Nitesh		
	Omveer Singh		
30	Pramod	Fabrication of time operated solar tracking system.	Mr. Vipin Kumar
	Pratik Raj		
	Rajkumar		
	Munit Kumar		
31	Shahbaj Mirza	Trash compactor.	Ms. Bhavyanidhi Vats
	Shahbaz		
	Nikhil Gangwar		
	Salman Khan		



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32	Vaibhav Singh	Fabrication of a system to convert gravitational energy into electrical energy.	Mr. O.P. Sahani
	Umar Farooq Shah		
	Udit Gupta		
	Tanveer-ul-Islam		
33	Shubham Rana	Fabrication and experimental investigation of multi tube type latent heat storage for solar dryer using paraffin wax as heat storage material.	Mr. Arvind Kumar Singh
	Yash Kumar		
	Shazeb		
	Yatendra Kr. Sharma		
34	Surendra Singh	Design and fabrication of a RC Quadcopter integrated with Raspberry Pi to demonstrate network penetration testing.	Dr. Munish Chhabra
	Shubham Kumar		
	Shikhar Singh		
	Sanjay Kumar		
35	Vishav Saxena	Design and fabrication of solenoid engine.	Mohd. Talha Khan
	Shivam Saxena		
	Shubhendra Pratap Singh		
	Kamal Babu		
36	Vipin Poswal	Fabrication of solar tricycle.	Mr. Atul Sharma
	Varun Bhatnagar		
	Shashank Rajput		
	Prashant Chaudhary		
37	Yugveer Singh	Gear less power transmission mechanism "Elbow mechanism."	Mr. R.K. Gangwar
	Vineet Kumar		
	Tanuj Singh		
	Rishabh Sharma		
38	Shubham Yadav	Self balancing two wheeled scooter.	Mr. Pavanendra Kumar
	Siddhant Sharma		
	Shivam Prakash		

	Gupta		
	Sunil Kumar		
39	Uday Bahdur Saxena	Model of intelligence gathering amphibious vehicle (Hovercraft).	Mr. Vineet Kumar
	Surya Pratap Vaish		
	Shobhit Singh		
	Maanvendra Singh Arya		
40	Vipul Saini	Anti collision train using rfid with automatic track switching.	Mr. Pravesh Chandra
	Vipul Bhatnagar		
	Vishal Kumar		
	Yatin Chauhan		
41	Sumit Chaudhary	Fabrication of pneumatic sheet metal cutting machine.	Mr. Atul Sharma
	Shashank Singh		
	Shikhar Choudhry		
	Kapil Kumar		
42	Suryansh Singh Dhillon	Fabrication of compressed air braking system.	Mr. Sumit Kr. Singh
	Shashank Chauhan		
	Shubham Manghat		
	Sunil Kumar		
43	Shubham Kr. Sharma	Fabrication and thermal performance investigation of flat and v-corrugated solar air heater.	Mr. Arvind Kr. Singh
	Vikas Pandey		
	Sonu Gupta		
	Peeyush Bishnoi		
44	Sonu Kumar	Road accident avoiding system using drunken sensing technique and accident due to Drowsy by using eye blink sensor.	Mr. Sumit Kr. Singh
	Shubham Kr Chauhan		
	Rajendra Saini		
	Vikki Kumar		

  
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45	Himanshu Patel	Design and simulation of 2+4 wheel steering system.	Mr. Akhilesh Kumar
	Vikas Gautam		
	Ankur Chaudhary		
	Vijay Kumar		

Prepare PPT<sup>s</sup> of subjects, make it more interactive.  
Faculty members may also provide Video's Related to  
Concerned Subject.



Mr. Pavanendra Kumar  
(Assistant Professor)



Dr. Munish Chhabra  
(HOD)



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