



Moradabad Institute of Technology, Moradabad

Academic Audit (Form-1)

(Academic Year – 2017-18)

Department: MECHANICAL ENGINEERING

Semester: Even

Head of Department: Dr. Munish Chhabra

Date of Audit: 12/01/2018

Activity	Completed or not	Remarks
Department Academic Calender	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
(HOD)

Dr. Munish Chhabra
Professor & Head
Deptt. of Mechanical Engg.
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Moradabad Institute of Technology, Moradabad

Academic Audit (Form 2)

(Academic Year –2017-18)

Department: Mechanical Engineering

Semester: Even

Head of Department: Dr. Munish Chhabra

Date of Audit: 25-26 May 2018

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

EVEN SEMESTER			
	Name of Faculty	Subject Name	Lectures/Labs Conduction
1	Dr. Bhanu P Singh	ELEMENTS OF MECHANICAL ENGG	50
2	Dr. Munish Chhabra	MANUFACTURING SCIENCE I	40
		MANUFACTURING SCIENCE I LAB	10
3	Dr. Parul Gupta	MACHINE DESIGN 2	42
		MACHINE DESIGN 2 LAB	10
4	Dr. Nitin Agarwal	MACHINE DESIGN 2	42
		MACHINE DESIGN 2 LAB	10
5	Mr. Puneet Kumar	OPERATIONAL RESEARCH	45
		W/S LAB	11
		DOM LAB	10
6	Mr. Pavendra Kumar	ELEMENTS OF MECHANICAL ENGG	50
		ELEMENTS OF MECHANICAL ENGG LAB	12
7	Dr. Abhishek Saxena	NON CONVENTIONAL ENERGY	40


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		RESOURCES	
		NON CONVENTIONAL ENERGY RESOURCES	40
		W/S LAB	11
8	Mr. Rakesh Kr Gangwar	ELEMENTS OF MECHANICAL ENGG	60
		ELEMENTS OF MECHANICAL ENGG LAB	12
		WS	11
9	Mr. Ankit Gupta	NDT	40
		SEMINAR	12
10	Mr. Vipin Kumar	MANUFACTURING SCIENCE I	40
		MANUFACTURING SCIENCE I LAB	11
		W/S LAB	12
11	Mr. Sumit Kumar Singh	ATD	45
		W/S LAB	12
		DOM LAB	10
12	Mr. Pravesh C Sharma	DOM	45
		DOM LAB	11
		RAC LAB	11
13	Mr. Deepak Singh	FLUID MACHINERY	46
		FLUID MACHINERY LAB	11
14	Mr. Akhilesh Kumar	POWER PLANT ENGG	40
		NON CONVENTIONAL ENERGY RESOURCES	40
		MD DWG LAB	11
15	Mr. Mohd Abdul Shafi	POWER PLANT ENGG	40
		MACHINE DWG LAB	10
		RAC LAB	10
16	Mr. Sanjay Kumar	MEASUREMENT AND METROLOGY	40
		MEASUREMENT AND METROLOGY LAB	10
		MACHINE DWG LAB	10
17	Mr. Vikas Rastogi	DOM	44
		SEMINAR	12
		DOM LAB	10
18	Mr. Ganesh Kr. Sharma	FLUID MACHINERY	42
		FLUID MACHINERY LAB	11
19	Mohd. Talha Khan	ADVANCE WELDING	40
		W/SLAB	11
		MEASUREMENT AND METROLOGY LAB	10
20	Mr. Arvind K. Singh	NON CONVENTIONAL ENERGY RESOURCES	40



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		SEMINAR	12
		ELEMENTS OF MECHANICAL ENGG	52
		NON CONVENTIONAL ENERGY RESOURCES	40
21	Mr. Atul Sharma	DOM	42
		NDT	40
		DOM LAB1	11
22	Mr. Akash Roy	POWER PLANT ENGG	40
		FMC LAB	10
		MEASUREMENT AND METROLOGY LAB	10
23	Ms. Monika Singh	RAC	42
		RAC LAB	10
24	Mr. Sachin Kawatra	RAC	41
		RAC LAB	11
25	Ms. Bhavyanidhi Vats	MECHATRONICS	41
		CAEG LAB	11
26	Mr. Om Prakash Sahani	MACHINE DESIGN 2	41
		MACHINE DESIGN 2 LAB	10
27	Mr. Sandeep Kumar	MECHATRONICS	40
		SEMINAR	12

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.
- (4) Regular counseling of weak students to enhance their habit of self learning.

Action Plan for Fast Learner

- (1) Questions of competitive exam level regularly taught to students.
- (2) Strong monitoring of self learning activities of students.
 - (a) Students are encouraged to read different books and present various topics as seminar in order to enhance the presentation and communication skills.
 - (b) Students are encouraged to prepare their own notes of each topics.
- (3) Each topic of the syllabus as well as additional topics/case studies discussed with students thoroughly.
- (4) They are encouraged to participate in workshops and seminars to gain knowledge on the latest developments.



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

Sno.	Topic	Duration	Number of participants
1	ED-Cell course	5 th /3 rd	15
2	ED-Cell course	6 th /3 rd	50
3	PDP classes	3 rd /2 nd	94
4	PDP classes	4 th /2 nd	94
5	PDP classes	5 th /3 rd	152
6	PDP classes	6 th /3 rd	152
7	PDP classes	7 th /4 th	160
8	Boot Camp	7 th /4 th	160

V. Guest Lectures Conducted for the Students

Sno.	Topic	Resource Person	Date
1.	Theory of machine	Dr. Ravi Dalmeya (IIT, Kanpur)	24.08.2017
2.	Basic introduction of Auto CAD	Mr. Avnish Kumar	09.09.2017
3.	Consciousness towards Academia- Industry Gap	Mr. Anuj Gupta	16.09.2017
4.	Micro Manufacturing and Engineering	Dr. Akshay Dvivedi	07.10.2017

VI. Allocation of Final Year Projects

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


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3	Anmol Chawla	Design and fabrication of compressor less Refrigeration system.	Mr. Sandeep Kumar
	Arpit Gaur		
	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		

10	Deepak Kr. Singh	Fabrication of motorised multibolt spanner.	Mr. Yogesh Rawat
	Bhupendra Kumar		
	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		


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17	Rishabh Arora	Design & fabrication of Quadcopter.	Mr. Puneet Kumar
	Sanjay		
	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		
	Sachin Kumar Pal	Comparative analysis of COP using	Mr. Yogesh Rawat

24	Rajeev Gautam	R134a & Hydrocarbon R-290/600a.	
	Prateek Kumar Singh		
	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		
	Shahbaj Mirza	Trash compactor.	Ms. Bhavyanidhi

31	Shahbaz		Vats
	Nikhil Gangwar		
	Salman Khan		
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		

VII. MOOCs/STTP/FDP/Workshops Attended by Faculty members

S.No.	Name of Faculty	FDP	Duration
1.	Dr. Parul Gupta	Universal Human Values and Professional Ethics	10-17 th Jan'18 (8 days)
2.		E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
3.	Dr. Munish Chhabra	Universal Human Values and Professional Ethics	10-17 th Jan'18 (8 days)
4.		E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
5.	Dr. Nitin Agarwal	Universal Human Values and Professional Ethics	10-17 th Jan'18 (8 days)
6.	Dr Abhishek Saxena	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
7.	Mr. Puneet Kumar	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
8.		Engineering Mechanics: Statics and Dynamics	Feb- March' 18 (8 Week)


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9.	Mr. Rakesh Kumar Gangwar	Engineering Mechanics: Statics and Dynamics	Feb- March' 18 (8 Week)
10.	Mr. Pavanendra Kumar	Universal Human Values and Professional Ethics	27 June -04 th July'17 (8 days)
11.		Universal Human Values and Professional Ethics (Refresher Workshop)	13 - 20 th Dec'17 (8 days)
12.		Universal Human Values and Professional Ethics	10-17 th Jan'18 (8 days)
13.		Universal Human Values and Professional Ethics (Advance Workshop, Level - 2)	26 May - 02 nd June'18
14.	Mr. Pravesh Chandra	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
15.	Mr. Deepak Singh	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
16.	Mohd Abdul Shaafi	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
17.	Mr. Ganesh Kr Sharma	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
18.	Mohd. Talha Khan	Optimization using MATLAB through ICT	17- 21 th July'17 (One week)
19.		Business and Soft Skills Development in Institutions through ICT	15- 19 th Jan'18 (One week)
20.		E- Governance and Green	19- 23 th Feb'18


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		Technology Entrepreneurship for technical Institutions through ICT	(One week)
21.	Mr. Shubham Vyas	Sustainable Rural Development Using Science and Technology	15 – 19 Jan' 18 (One week)
22.	Mr. Arvind Singh	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
23.	Ms Monika Singh	Summer Faculty Research Fellow Programme	15 May – 14 July' 17 (2 months)
24.		E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
25.		First Course in Computational Fluid Dynamics: Development, Application and Analysis	25 – 29 th June' 18 (One week)
26.	Ms. Bhavyanidhi Vats	Summer Faculty Research Fellow Programme	15 May – 14 July' 17 (2 months)
27.		E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)
28.		First Course in Computational Fluid Dynamics: Development, Application and Analysis	25 – 29 th June' 18 (One week)
	Mr. Sandeep Kumar	E- Governance and Green Technology Entrepreneurship for technical Institutions through ICT	19- 23 th Feb'18 (One week)


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VII. Research Paper Published (Even Sem)

International Journals	03
National Journals	--
International Conferences	--
National Conferences	--
Book Chapter	01

VIII. Achievements of Students (Even)

Sno.	Name of Student	Event	Achievement
1.	Mr. Jai Prakash	AKTU Zonal Level	1 st
2.	Mr. Arpit Singh Gill	AKTU Zonal Level	1 st
3.	Mr. Mohd. Shazeb	AKTU Zonal Level	1 st
4.	Mr. Saurabh Kumar	AKTU Zonal Level	1 st
5.	Mr. Kumar Arpit	AKTU Zonal Level	1 st
6.	Mr. Jai Prakash	AKTU Zonal Level	1 st
7.	Mr. Mohd. Faizan	400m maitree	3 rd
8.	Mr. Mohd. Faizan	4*100m relay Aamod	3 rd
9.	Mr. Mohd. Faizan	4*400m relay Dr. Abdul Kalam Sport Fest	3 rd
10.	Mr. Mohd. Faizan	Football Dr. Abdul Kalam Sport Fest	3 rd
11.	Mr. Mohd. Faizan	4*400m relay aamod	2 nd
12.	Mr. Mohd. Faizan	400m, Dr. Abdul Kalam Sport Fest	1 st
13.	Mr. Mohd. Faizan	athletics(4*400), aamod	participated
14.	Mr. Mohd. Faizan	athletics(4*100), aamod	participated
15.	Mr. Mohd. Faizan	800m, maitree	3 rd
16.	Mr. Mohd. Faizan	4*400m relay Dr. Abdul Kalam Sport Fest	1 st
17.	Mr. Mohd. Faizan	Athletics(400m), aamod	1 st
18.	Project Group Under Mr.Arvind Kumar	Project Competition	Got 20000INR

Incorporate more & more ICT tools in your teaching learning process.

fun
Mr. Pavanendra Kumar
(Assistant Professor)

[Signature]
Dr. Munish Chhabra
(HOD)

[Signature]
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