ME-Newsletter

Session: 2015-16

Vision of the institute:

To be a leading educational institution recognized for excellence in engineering education & research producing globally competent and socially responsible technocrats.

Mission of the institute:

- To provide state of the art infrastructural facilities that support achieving academic excellence.
- To provide a work environment that is conducive for professional growth of faculty & staff.
- To collaborate with industry for achieving excellence in research, consultancy and entrepreneurship development.

Vision of the Department:

To be recognized as a centre of excellence for mechanical engineering education

Mission of the Department:

- To impart quality education aimed at producing competent professionals capable of applying their knowledge of science & engineering fundamentals creatively in areas related to mechanical engineering.
- To provide necessary support to the aspirants in their goal oriented academic pursuits through mentoring and value added curricular and co-curricular activities.
- To make students conscious of ethical values in pursuing their professions and to inculcate a desire among them to contribute positively to the development of a sustainable environment.

Program Educational Objectives (PEOs)

The educational objectives of undergraduate Mechanical Engineering Program are :

- To transform and develop students into competent professionals capable of solving technical and societal problems.
- To make the students fully aware of the way the mechanical engineering discipline is currently practiced and to inculcate in them a thirst for further knowledge.
- To produce professionals with strong work ethics and high sensitivity to environmental and sustainability issues.

PO's (Departmentof Mechanical Engineering)

Engineering Graduates will be able to:

1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, social, and environmental considerations.
4. Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

1. Conceptualize, design, make / improve physical products, processes and systems using principles of design, manufacturing and Industrial engineering.
2. Design, develop and maintain various thermal engineering systems.

Department Activities:

- Lecture on Processing of Composites (16/10/2015) by Dr. M.N.Desmukh
- Lecture on Introduction to Thermal Stresses (02/11/2015) by Dr. M.N.Desmukh,
- Lecture on CRDi and Variable Compression Engine (08/09/2015) by Dr. Chandan Kumar
- Lecture on Natural Frequency of multi-degree freedom system (Approx. Solution, Dunkerley's Method) (22/02/2016) by Prof. M. K. Lohumi
- Expert lecture on Computational Fluid Dynamics (CFD) (12/02/2016) by Dr. Basant Singh Sikarwar, Professor, Amity University
- Expert lecture on Control Charts for defects (12/09/2015) by Dr. O. P. Kaushal, Retd. Professor, College of Technology, GBPUA&T Pantnagar.
- Expert lecture on Genetic Algorithm (10/09/2015) by Dr. P.K S. Nain. Professor , Galgotia Univ., Greater Noida.
- Lecture on Simulated Annealing (19/09/2015) by Prof. Sanjay Kumar
- Conducted workshop on "Automobile Suspension Systems and Analysis using Solid Works" (09/10/2015) by Mr. Sonu Prakash, Program Manager, APTRON Solutions Pvt. Ltd., (A Unit of Netexperts Educational Services)
- Lecture on environmentally conscious manufacturing (01/03/2016) by Dr. Mohd. Asim Qadri
- Lecture on Environment friendly design (24/10/2015) by Ms. Shikha Bisht
- Expert Lecture on Application of Solar Photovoltaic system (04/04/2016) by Prof. G. N. Tiwari, Professor, IIT Delhi 97
- Lecture on Construction and working of Wind, biogas and fuel cell plants (06/04/2016) by Dr. S. P. Pandey
- Communication skill Regular classes by School of lifelong learning (SLL) (20/07/2015) by Ms. Palumi Ghosh.

Industrial Interaction of students:

- Expert lecture on Food storage material at Krishna industries, Greater Noida on dated 18-03-2016.
- Student visited Cosmo Analytical Lab and got exposure on various latest material testing machines on dated 10-04-2016.
- Student Visited Aroma Mii Technologies, Faridabad on dated 20-04-2016.

Industrial visits of students:

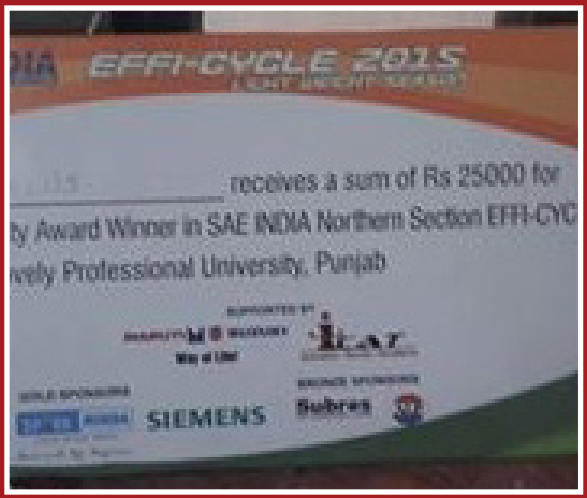
- 18.09.2015 Indian Oil Corporation Limited, R&D Centre, Faridabad
- 15.03.2016 Indian Oil Corporation Limited, R&D Centre, Faridabad

Major Projects of session 2015-16:

- Kinematic analysis of mechanisms using C- programming, guided by Mr. Shahroz Akhtar Khan
- Zig Zag Lift, guided by Mr. Shahroz Akhtar Khan
- Solar Plate Collector, guided by Mr. Sudip Ghatak
- Solar Water Distillation, guided by Mr. Rakesh Kumar
- Aluminium Matrix composite for high temperature application, guided by Mr. Manohar Singh
- Optimization of process parameter in turning by Taguchi Method, guided by Dr. Pawan Kumar Arora
- Design and Fabrication of Hydraulic Ram Pump, guided by Mr. Niranjan Sahoo
- Design and Fabrication of Human Powered Vehicle, guided by Mr. Brijesh Singh

Student Activities:

- The Galgotias SAE collegiate club organized a SAE orientation program on dated 22-08-2015. Approximately 150 students participated in this event.
- The Galgotias SAE collegiate club conducted Solidworks software training program on dated 12-09-2015 and 13-09-2015. 30 students participated in this training program.
- The mechanical engineering society, GMECH organized a Technical Quiz on dated 31-01-2015. Approximately 60 students participated in this event.
- The mechanical engineering society, GMECH organized a Debate competition on dated 07-03-2015. 10 students participated in this event.
- The students of Mechanical Engineering Department, Galgotias College of Engineering & Technology participated in “Hybrid Go Kart Challenge-2015” organized by Automiester.
- The students participated in “Electric solar vehicle challenge” organized by AKARA, LPU, Jalandhar. The students are awarded with best acceleration and braking system design in this event.
- The students participated in “SAENIS Efficycle-2015” organized by Zyklus, LPU, Jalandhar. The students ranked 23 in this competition.
- The students participated in “OFF- Road Battle” organized by Mudbeast, Gautam Buddha Nagar. The students ranked 4th in this competition.



Faculty Research Publications:

- Sharma, Vikram, et al. “An interpretive hierarchical model for lean implementation in machine tool sector.” *International Journal of Productivity and Quality Management* 15.3 (2015): 381-406.
- Sharma, Vikram, Amit Rai Dixit, and Mohammad Asim Qadri. “Impact of lean practices on performance measures in context to Indian machine tool industry.” *Journal of Manufacturing Technology Management* 26.8 (2015): 1218-1242.
- Lohumi, Manoj K., Aas Mohammad, and Irshad A. Khan. “A computerized loop based approach for identification of isomorphism and type of mobility in planar kinematic chains.” Sadhana 40.2 (2015): 335-350.

Student Publications:

- Dubey Abhishek et al. “ Fabrication of Al 7075-B4C MMC using stir casting process and study of its microstructure.” National Conference on INNOVATIVE CONCEPTS IN MECHANICAL ENGINEERING (ICME-2016).

Campus Placement: (Session: 2015-16, till April 2016):

S.NO.	NAME	NAME OF EMPLOYER
1	Abhijeet Sharma	Cognizant
2	Abhishek Dubey	Cognizant
3	Akansha Prajapati	Cognizant
4	Alok Kumar Singh	Cognizant
5	Aman Raj Srivastava	Cognizant
6	Anamika Singh	Cognizant
7	Ankur Gautam	Cognizant
8	Anmol	Cognizant
9	Devesh Kumar Gupta	Cognizant
10	Dharmendra Singh Parmar	Cognizant
11	Jatin Khanna	Cognizant
12	Madhulika Singh	Cognizant
13	Mohammed Saquib	Cognizant
14	Pooja Sharma	Cognizant
15	Pratul Vishera	Cognizant
16	Prince Kakran	Cognizant
17	Saurabh Joshi	Cognizant
18	Varsha Goel	Cognizant
19	Akansha Prajapati	Hero Morocorp
20	Anamika Singh	Infosys
21	Anurag Tripathi	Infosys
22	Dharmendra Singh Parmar	Infosys
23	Aman Dubey	Price Ponder
24	Aman Dubey	Printers Tech
25	Vibhanshu Gaur	Printers Tech
26	Faraz Farooqui	Rise Projects
27	Pratul Vishera	Rise Projects
28	Tushar Saxena	Rise Projects
29	Varsha Goel	Rise Projects
30	Vibhanshu Gaur	Rise Projects
31	Sachin Singh	Shriram Transport Finance Company
32	Aman Raj Srivastava	TCS
33	Ashish Kushwaha	Tech Mahindra
34	Shashi Srivastava	Tech Mahindra
35	Yuvraj Dwivedi	Tega Industries
36	Akansha Prajapati	Wipro Tech
37	Anamika Singh	Wipro Tech
38	Aviral Agarwal	Wipro Tech
39	Dharmendra Singh Parmar	Wipro Tech
40	Mohammed Saquib	Wipro Tech
41	Saurabh Joshi	Wipro Tech

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