

Department
of
Mechanical
Engineering
Presents



The Second Edition of

HORIZON

FRONTIERS OF MECHANICAL

ENGINEERING

JOURNEY OF ADVANCEMENT &

ENRICHMENT

EDITION #2

EDITOR IN CHIEF



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Senior Superintendent of Workshop
EDITORS



Dr. Manu Srivastava
HoD, Department of Mechanical
Engineering



Mr. Dain D Thomas



Mr. Rohan Dhawan
3rd Year Student

VISION OF THE DEPARTMENT

To develop the department into an advance center of learning by synergizing teaching, learning and research to produce competent Mechanical Engineers with an exposure to interdisciplinary engineering knowledge.

MISSION:

The Department is committed to:

- Produce job ready engineers in the field of production, design, thermal, industrial and automation engineering by imparting basic sciences and engineering education.
- Nurture student with creativeness, innovativeness and entrepreneurship skills to develop out-of-the-box thinking respond effectively to the needs of the industry and the ever-changing world scenario.
- Conduct high quality research, provide industrial consultancy and offer state of art undergraduate, postgraduate and doctoral programme.



Dr. O.P Bhalla,
Founder Visionary



Smt. Satya Bhalla
Chief Patron



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Dr. Sanjay Srivastava,
Vice Chancellor, MRIIRS



Dr. H.C. Rai, ED &
Dean, FET, MRIIRS



Dr. Geeta Nijhawan,
Associate Dean, FET,

संपादक की कलम से.....

प्रिय पाठक,
यह मेरा सौभाग्य है कि मुझे यांत्रिक अभियंत्रण विभाग के सूचना पत्र के मुख्य संपादक के रूप में अपना योगदान देने का अवसर प्राप्त हुआ। यह विभाग वर्ष 1997से ही इतनी प्रगति के साथ उभरा कि न केवल दिल्ली राजधानी क्षेत्र में अपितु समूचे देश में अपनी विशेषताओं, प्रयोगशालाओं एवम कार्यशालाओं के लिए इसका नाम सम्मान के साथ लिया जाने लगा। मैंने इस विभाग रूपी पौधे को रोपते हुए, बढ़ते हुए, फलीभूत होते हुए एवम सुखद छांव देते हुए देखा है। इस सबके लिए हमारे अनुभवी एवम सुशिक्षित विभागाध्यक्ष एवम कुशल शिक्षक बधाई के पात्र हैं। विभिन्न प्रयोगशालाओं एवम कार्यशालाओं में प्रशिक्षित टेक्नीशियन बहुत ही सुंदर तरीके से विद्यार्थियों को शिक्षित करते हैं जो वास्तव में बधाई के पात्र हैं। मैं अपने समस्त शिक्षकों, तकनीकी सहयोगियों एवं स्टाफ़ को तथा समस्त विद्यार्थियों को अपने हृदय की गहराइयों से शुभकामनाएं देता हूँ और परमपिता परमेश्वर से प्रार्थना करता हूँ कि यह विभाग दिन प्रतिदिन फूले फले और अपनी प्रतिभाओं की छटा बिखेरता रहे। मैं अपनी प्रबंधन समिति के सम्माननीय पदाधिकारियों का हृदय से आभारी हूँ जिन्होंने सदैव ही यांत्रिक अभियन्तण विभाग को ऊपर उठाने में अपना पूर्ण योगदान दिया।

Graysan

NATIONAL SYMPOSIUM ON “INTEGRATION OF RESEARCH ACADEMIA AND INDUSTRIAL PRACTICES TOWARDS MANUFACTURING EXCELLENCE”

Department of Mechanical Engineering (MED), FET, MRIIRS organized a National Symposium on “INTEGRATION OF RESEARCH ACADEMIA AND INDUSTRIAL PRACTICES TOWARDS MANUFACTURING EXCELLENCE” on 25th day of February 2020. The National Symposium started with gracious presence of renowned academicians like Prof. (Dr.) I K Bhat - Hon'ble Chancellor MRU, Prof. (Dr.) Pulak Mohan Pandey - IIT Delhi, Prof. (Dr.) Sachin Maheshwari – NSUT Delhi, Mr. Abhijeet Mitra – Design Head – M/s Koyo Springs Ltd. Haryana along with delegates from Industry and academia. From MRIIRS, Pro. (Dr.) Naresh Grover, Dean Academics - MRIIRS, Prof. (Dr.) Geeta Nijhawan, Associate Dean – FET MRIIRS, Prof. (Dr.) Manu Srivastava, HOD MED MRIIRS, Prof. (Dr.) Sujata Nayak – HOD MED, MRU along with faculty members and students.



Program started with Saraswati Vandana and lamp lighting by all delegates. Symposium started with technical session of Prof. (Dr.) Pulak Mohan Pandey. He enlightened the students with expertise of Additive Manufacturing by current trends and requirements. He also highlighted the importance of amalgamated recent trends in research with academics to bring forth coming best practices in manufacturing. Second technical session was delivered by Prof. (Dr.) Sachin Maheshwari. He delivered expert talk on Manufacturing Excellence by recent technologies and brief the future and scope as well. He talked about making industry ready engineers. Third session was delivered by Mr. Abhijeet Mitra on manufacturing processes with concerns of design and quality. He briefed the audience on concept and importance of right spirit of value and expertise in industry. Fourth session was conducted by Prof. (Dr.) I. K. Bhat. He enlightened and developed the future scope and trends of emerging Mechanical Engineering. He discussed about all the scopes of smart manufacturing, engineering in detail and gave a brief concept and importance of Industry 4.0.



The sessions were highly informative and knowledgeable. The audience appreciated the expertise of speakers. There was question/answer session after each expert talk and students as well as faculty members interacted with speakers on their queries and doubts.

Felicitation Ceremony was then towards the end of program. Prof. (Dr.) I K Bhat felicitated all the speakers to invoke manufacturing excellence in mechanical engineering. Symposium was concluded by the Vote of Thanks by Dr. Manu Srivastava. Mr. Arun Gaur, the departmental coordinator of symposium was highly appreciated by all present departmental faculty members.



STUDENT SECTION



Team TIFAN consisting of Rohan Dhawan (Captian), Vijaykant Shrama, Aditya Sharma, Himanshu garg, Vishal Goel, Puneet Garg and Brijmohan, Shubahm Srivastav, Shivam Bhardwaj, Kumar Kaushal Ankit Parmar, Aman Rana and Ayan, Shivam Gautam cleared the virtual round under the leader ship of Dr. Abhishek Chauhan



Mechanical engineering Department had donated tools such as screwdrivers, hammers, stands to the needy that were made in the workshop by the students.



Team for SAE Efficycle 2019, consisted of Dhruv Sharma, Ranjeet, Vaibhav Singla, Nikhil, Tushar, Saideep Ghimre, Sangram, Kaushal, Raghvendra and Nishchal Thapa, students of Mechanical Department under the mentorship of Dr. Abhishek Chauhan.

Inauguration and launch of HORIZON Edition #1

The First edition of the Department newsletter was launched during the National Symposium on “INTEGRATION OF RESEARCH ACADEMIA AND INDUSTRIAL PRACTICES TOWARDS MANUFACTURING EXCELLENCE” on 25th day of February 2020.

It was launched under the gracious presence of renowned academicians like Prof. (Dr.) I K Bhat - Hon'ble Chancellor MRU, Prof. (Dr.) Pulak Mohan Pandey - IIT Delhi, Prof. (Dr.) Sachin Maheshwari – NSUT Delhi, Mr. Abhijeet Mitra – Design Head – M/s Koyo Springs Ltd. Haryana.



A message from our student correspondent



Rohan Dhawan
3rd year student at MED
Captain of Team
TIFAN

The department has grown into full-fledged technology centre with well equipped lab facilities, infrastructure and faculty members with various specializations, and international exposure.

Activities in the department are carried out to consort the global innovations, inventions alternate resource development in the mechanical world for the human humankind. In this journey, the students are trained to upgrade themselves and the department is striving to mold them into a better engineer for the society. Individual attention and sessions have drawn out innate capabilities of students, helping them excel and cope with academics and extracurricular. The department frequently organizes industry visits, subject related seminars, guest lectures workshop etc. To enhance the depth of the subject, many workshops are organized in continuous manner.

Our department has recently signed MoU's with various MSME organizations, strengthening industrial relations, to ensure a smooth transition from classroom to shop floor. Student Innovations have been selected by Department of Science and Technology, Government of India, while students have also been selected as interns in various Global Fortune 500 MNC's like Cummins, GKN Automotive, Senior Flexonics etc..

Under the leadership of Mechanical department, the students remain strategically positioned for growth, and a Centre of excellence for MR Universe

INDUSTRIAL VISIT TO ACE CONSTRUCTION EQUIPMENT LTD.

Department of Mechanical Engineering on 11.02.2020 organized an industrial visit to ACE Construction Equipment Ltd. for the students of B.tech Mechanical 3rd Year. Total 58 students and 4 faculty members participated in the visit. The faculty members involved were Dr. B K Bhuyan, Mr. Prateek Mittal, Mr. Sunil Kumar, Mr. Dinesh Chawla. Ace Construction Equipment Ltd. is located in palwal in Haryana. The company is into manufacturing of earth movers, heavy duty cranes and Agri machinery. The cranes from the capacity of 10 Tonnes to several hundred Tonnes are being manufactured in the plant. The students saw the assembly of mobile cranes in the plant. Each process was explained to them by Mr. Sudhir (Production Head). Mr. Ishwar (Manager) also explained to the students about the testing of cranes. Refreshment was also provided to the students in the plant which was a nice gesture of hospitality from the company. The department would like to thank Mr. Arun Gaur (Asstt. Professor) for organizing this visit.



INDUSTRIAL VISIT TO IMPERIAL AUTO INDUSTRIES, FARIDABAD

Department of Mechanical Engineering on 11.02.2020 organized an industrial visit to Imperial Auto Industries Faridabad for the students of B.tech Mechanical 2nd Year. Total 32 students and 2 faculty members participated in the visit. The faculty members involved were Dr. Virender Narula, Mr. Sorabh. Imperial Auto Industries Faridabad is located in Faridabad. Imperial Auto Industries is Tier one supplier of all major Original Equipment Manufacturers (OEMs) Automotive Giants including Maruti Suzuki, Tata, Mahindra and Mahindra. In addition, it is Approved global supplier to International Truck, Cummins, Caterpillar, JCB, John Deere and other OEM manufacturers overseas.

A brief introduction of company was given by Ms. Minakshi, HR Manager. The students saw the assembly of flexible hoses, metal tubes and rubber hoses in the plant. Refreshment was also provided to the students in the plant which was a nice gesture of hospitality from the company.

