Dear Readers,

It is indeed a great honour and subject of immense delight to celebrate the launch of first edition of departmental newsletter: Horizon-The frontiers of Mechanical Engineering 2020. The newsletter will be published on a regular basis with 12 editions each year. Its aim is to create a platform to share our strengths, achievements, events, activities & all other relevant information, which our stakeholders including students, faculty, management, alumni, industry, parents should know. This is an earnest endeavour to bring our current students and faculty members together. Few glimpses of our past year events, our alumni, our star faculty and our memories are collated for sharing with all. As its Editor in chief, I wholeheartedly welcome all suggestions & thoughts for quality enhancement of our department & newsletter. Our students are most beloved to us & I am glad to announce, preceding newsletters will have a dedicated student editorial section. We express our heartfelt gratitude to our patrons, especially the young & dynamic leadership of motivators like Dr. Prashant Bhatta, Dr. Amit Bhatta and Dr. Sanjay Srivastava who have placed so much trust on the capabilities of the department. I am confident that with the positive spirits and earnest efforts of all of us, we can create newer avenues and march towards brighter horizons of frontier developments in mechanical engineering. As a department, we are committed to hold the flag of our Manav Rachna family & Mechanical Engineering branch high not only on national but also on the global platforms. I congratulate my team for achieving this milestone. I pray to almighty to give us strength to excel as a person and as a department to march steadfastly towards newer horizons of hope & achievements.

Dr. Sanjay Srivastava

Horizon-The frontiers of Mechanical Engineering 2020

Journey of Advancement & Enrichment
Edition #1

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 creativity, 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
"If not in here (MIED), I would have been in peace with my average performance in every aspect of life. I discovered, there's much more to an average i.e. Excellence, which comes with proper grooming of strengths and browning of weaknesses. Indeed the first place to teach me many lessons simultaneously. Talk about studies, professors, a learning environment, friends circle, extra-curricular, career guidance, life lessons, and above all discipline; it gave me the best in each of these, living up to its name which implies evolution of an individual."

Aashleesh Sharmu
Technical Student at CERN (European Organization for Nuclear Research), world's largest Nuclear and Particle Physics Laboratory, best known as operator of the Large Hadron Collider located at Geneva, Switzerland

"I like looking at problems from different angles. At Mechanical Department in MRIERS, you can get a second opinion from virtually any other perspective and you'll never have to search for a domain expert. I will always cherish the feeling of studying at the department, which focused on career enhancements along with overall skill development."

RAVI VERMA
Social security officer at Ministry of Labour and Employment, Government of India

Abhimanyue Bhagat, B.Tech and M.Tech Alumni from the Department of Mechanical Engineering, started his own company A-Square Innovations which deals with Manufacturing and Trading of Retractable Seating Modules, Retractable roof systems, Sliding folding wall partitions, Dome Covers, Steel Trusses and wedding stages etc. and has been Registered in 2013!!!
The Highlight of our Department are our

BELOVED STUDENTS...

When we first met them, they were just boys and girls...

2019-2023 BATCH STUDENTS

2018-2022 BATCH STUDENTS
2017-2021 Batch Students

Kartik Sharma   Nikhil   Modit   Ashish   Vineet Verma   Ajay   Navin Kumar Singh   Ravneet Singh   Ashutosh Chaube
Rohit Panwar   Shubham   Anurag   Moksh Gera   Ankit   Bandhanpreet Singh   Rijul Chaudhary   Aman Kukreja   Nittin
Suraj   Baibhav Kumar   Vikas   Sanjeet Kumar   Santosh Kumar   Tushar Rawat   Ravi Shankar Yadav   Karan Bhardwaj   Aman Bhatt   Sagar Bhadana

2016-2020 Batch Students

ABHEET   ADITYA   RIDUL   ISHAAN   NEERAJ   SHUBHAM   HIMANSHU   PANKAJ   ROHIT   MANJPRATAP
KUSHAGRA   SPARSH   ANIL   AMAN   JEEVESH   PRASHANT   ANURAG   SHUBHAM   SUMIT   SHUBHAM
CHIRAG   RAHUL   ASHISH   HARSH   AAKASH   ANJI   ANKIT   JAI   SIMRANDEEP   MANJEET
INDUSTRIAL COLLABORATIONS...

M/s Prakash Engineering Products
M/s Junglid Motors India Pvt Ltd
M/s Standard Refrigeration Pvt. Ltd.
M/s Multipacking Solutions
M/s Flow Tech Air Pvt. Ltd.

M/s Hindustan Enterprises
M/s Shiv Machine Tools
M/s D C S Sales and Engineers
M/s Sonica Machine Tools
M/s Shri Ram Autotech Pvt. Ltd.

NSIC - Technical Services Centre (A Govt. of India Enterprise)

Jai Bharat Maruti

INDUSTRIAL VISITS...

M/s Conor Power Products (P) Ltd.

M/s Condor Pvt. Ltd.

JAY BHARAT MARUTI LTD.

NSIC, NEEMKA

MSME, AGRA
Dr. Manu Srivastava is presently serving the university as Director, Research and Studies, Faculty of Engineering and Technology and also as Head of Department for Mechanical Engineering. She has completed her PhD from the prestigious University of Delhi (University of eminence). She has more than 100 publications in international journals of repute and refereed international conferences out of which around 40 are in prestigious SCI/Scopus indexed journals. She is the author of four books with the prestigious CRC press- Taylor and Francis group titled: Friction Based Solid State Additive Manufacturing Techniques, Additive Manufacturing: Fundamentals and Advancements, Metal Additive Manufacturing: Principles, Applications and Advancements and Functionally Graded Materials.

She is the recipient of prestigious Teaching cum Research Fellowship, International Travel Grant, Merit Scholarship, CMTI grant, etc. during the course of her academic and teaching career. She has qualified the prestigious GATE and CAT exams more than once and is a recipient of several awards during the course of her career including teaching excellence award, merit awards, best teacher awards, proficiency awards, etc.

She is a life member of Additive Manufacturing Society of India (AMSI), Vignana Bharati (VIBHIA), The Institution of Engineers (EI India), Indian Society for Technical Education (ISTE), Indian Society of Theoretical and Applied Mechanics (ISTAM), Quality Council of India (QCPI), etc. Her field of specialization includes additive manufacturing, hybrid additive manufacturing, functionally graded materials, friction stir processing, robotics, smart manufacturing and optimization techniques.

Vinay is presently serving Manav Rachna International Institute of Research and Studies, Faridabad, India as an Assistant Professor in department of Mechanical engineering. With his knowledge on Refrigeration & Air Conditioning Cycles and his teaching methods, made him the student’s favorite in no time. He later decided to make his classes and techniques available globally through the internet, so he came up with the idea to create Wings classes on youtube. It has several subscribers and views from several students.

Arun Gaur is presently serving Manav Rachna International Institute of Research and Studies, Faridabad, India as an Assistant Professor in department of Mechanical engineering. He has managed MoUs with over 50 companies for mutual support for training & Placement and consultancy project work. He was also awarded by INTERISHALA for his work.
... and then there were other memories with our students...

1st Prize in the Technical Project Category at INNOSKILL 2019

2nd Prize at CONTRAPTION - INNOSKILL 2019

Third Prize at AYUSHAN-19 North Zone

IIF EXPO

... Mechanical engineering wasn’t the only thing we taught them...

Cleanliness drive in Workshop

Career guidance classes for future growth & excellence

Matra Bhasha divas
**Startups**

**Orchard India**
Team: Rohan Gupta and Himanshu Garg
Mentor: Abhishek Chauhan

**Tachyon Motorsports Pvt Ltd**
The aim is to redesign electric vehicles so they stand out from the crowd of the huge two wheelers available in the market and to never neglect their performance abilities.
Team: Aayush Mohan, Mr. Kartik Rampal
Mentor: Abhishek Chauhan

**N2 Innovations**
The aim is to build an agricultural machine. It is rice transplanter which works on the principle of transplanting of rice saplings in the field reducing labour and time.
Team: Nithish Kumar
Mentor: Dain D Thomas