

# E-Newsletter

## Department of Mechanical Engineering



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### Faculty Awards & Honors



**Prof. Vedansh Chaturvedi**, received the **elite certificate** for the SWAYAM/ NPTEL course name 'Introduction to abrasive machining and finishing processes'.



**Prof. Amit Soni**, received the **elite certificate** for the SWAYAM/ NPTEL course name 'Engineering metrology'.



**Prof Sharad Agrawal**, received the best mentor award for the SWAYAM/ NPTEL course 'Law of thermodynamics'.



**Prof. Deepak Kumar**, received the best mentor award for the SWAYAM/ NPTEL course 'Law of thermodynamics'.

Editorial Team

- Dr. Amit Aherwar
- Prof. Bhupendra Pandey

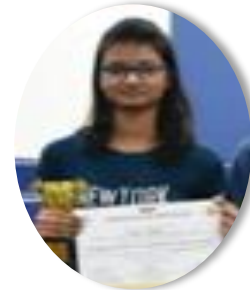
## Activity Organized

1. Department has organized a three-day event on the '**3D Course on Introduction to aerospace propulsion**' from **25<sup>th</sup> - 27<sup>th</sup> Oct, 2018**. This program comes under DVP scheme of INAE-AICTE and co-ordinate by Prof. C.S Malvi. The program was hosted by Prof. N. K. Gupta who is Ex. Director and project director (CRYOGENIC) in LPS/ISRO. The aim of the event was to emphasize on rocket launching and satellite launching to the students. Also, he discussed problems and their remedies related to aerospace technology. At the end of this course, students gave exam and Pragma Tiwari, Saumya Tiwari and Antra Phatak got the 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> position respectively. Prof. Gupta awarded the certificates to these participants. Also, at the end of program, Dr. Manjari Pandit, (Dean Academic) and HOD of Mechanical Engineering Department Prof. M. K. Sagar were present. Also, Prof. Gupta shares the tips of success in life with the student. He share his own moment and told where he standing at the summit of success. This happened only by his parent and teachers. He also told about the information on contribution of Dr. A. P. J. Abdul Kalam and Dr. Satish Dhavan in rocket science and space technology and also about all scientists

1<sup>st</sup>  
Position



2<sup>nd</sup>  
Position



3<sup>rd</sup>  
Position



2. Department of Mechanical engineering organized a workshop on '**Application of Mendeley software in research work**' on **10<sup>th</sup> October 2018**. This workshop headed by Prof. C.S. Malvi. The aim of this workshop was to emphasize, how to managing the references of their thesis with minimal time to the PG students. The workshop will take place in two parts: Firstly, he delivered a walkthrough of the software and discuss how it benefits academic research. Afterwards, he had given the hands-on guidance on how to use the software, along with tips for more productive citation management and academic writing. In this workshop, Dr. Malvi mainly focused to import the references under various methods such as 'Drag-and-Drop method, Add entry manually, Add entry via Mendeley Web and Add entry via Web Importer.
3. Department of Mechanical engineering organized a two days national workshop on '**Advanced Manufacturing System**' from 27<sup>th</sup>-28<sup>th</sup> Oct, 2018. This workshop was attended by 64 participants including industry personnel, faculty and research scholar. Total 07 sessions were held during the workshop from the different IIT's and industrial personals. The outcome of this workshop is to aware the various applications of innovative technology within the modern manufacturing practices.

## MoU Signed with CIPET, Gwalior



Speakers: Dr. Gyan Praksh, ABV-IIITM; Dr. S. Kumar, IIT-BHU; Mr. A. Chinholikar, Industry personal; Dr. P. M. Pandey, IIT-Dehli; Dr. P. K. Jain, IIITDM Jabalpur

## Faculty Outreached

- **Dr. Manish Kumar Sagar** attended an AICTE QIP sponsored **short term course** on '**Supply chain management**' from 8<sup>th</sup> - 13<sup>th</sup> October, 2018 at IIT BHU.
- **Prof Dinesh Kasdekar** and **Prof. Sharad Agrawal** attended a Faculty Development Programme on '**Engineering computations and GUI development with MATLAB (EC-Guid)**' at IIITDM, Jabalpur from 13<sup>th</sup> - 17<sup>th</sup> October 2018.
- **Dr. Jyoti Vimal**, delivered a lecture on functionally graded material a new breed of composite material at BIET. Jhansi on 18<sup>th</sup> Dec 2018.



## Students Achievement & Activities

**Sourabh Dhepte**, student of 3<sup>rd</sup> year Mechanical Engineering built a book chair, Winner of Startup Weekend Gwalior, Won 2<sup>nd</sup> Prize in **HUNAR 2.0** in state level and also qualify and Participating in National level Event in IFEEL Lonawala, Won 3<sup>rd</sup> Prize in Social Innovation Startup in event Startup Yatra M.P and also got Rs 25000/- cash prize and also got Incubation offer from AIC-AARTECH support by NITI AAYOG. He Participated in National level Event in IIM Udaipur and selected from Madhya Pradesh and represent Madhya Pardesh in National Round.





Automobile 2<sup>nd</sup> year students were organized a one day extension programme on '**Dental check-up and health awareness camp on 27/10/2018**'. This programme coordinated by Dr. Amit Aherwar and Prof. Manish Kumar Sagar. This programme was conducted by the team of six doctors from Indian dental association. The awareness programme will take place in two parts: Firstly, Dr. Atul Purohit & Dr. Anshul Tiwari focuses on instilling in the minds of the students the importance of regular tooth brushing and dental examinations to prevent dental problems. They also discussed with the students in what to do in case of dental emergencies and the importance of regular dental check-ups to examine their oral condition. Afterwards, the Dieticians' examine the student's teeth turn by turn and discuss the remedies as well. Total 150 volunteers were participated



**Kajal Yadav**, student of Automobile 3<sup>rd</sup> year awarded as the best player award in RGPV state level table tennis tournament-2018-19 organized by VNS Group of institution, Bhopal, Faculty of Engineering on 23<sup>rd</sup> October 2018. She led the Gwalior team and finals were played between Gwalior v/s Indore. Gwalior won the championship by 3-2. Kajal Yadav received the certificate and trophy. She was also declared as the captain of University team.



## Industrial Visit

Industrial visit was conducted for B.E Mechanical and Automobile Engineering students in **CSMT and AUDI Workshop Tekanpur** on 21<sup>st</sup> Oct 2018. Total 52 students and 03 faculty members visited to CSMT and AUDI Workshop to understand current market scenarios of engine and vehicles and latest most demanding technologies & criteria for selection etc. Students were very eagerly waiting for listening Advance technology of vehicles. The Technical Head of the workshop shared very informative session for the students. He motivated the students to select their domain area and importance of vehicle in the current market. He also discussed on current technology which they are using in AUDI. The session was concluded with Question-Answer session. Many of the students asked different questions to the Technical Head on current demanding technologies, market scenarios and they cleared all the doubt and myths which was in students mind about the technologies sector. This visit was an informative, interesting and a successful for students. They understood live applications of engine and vehicle working and importance of technology selection.



## Book Chapter

Sourabh Kushwah, Dinesh kumar kasdekar, Sharad Agrawal, 'Mathematics & Prediction modelling of MRR for evaluating the effects of process parameters" Ambient communications & computer system, Advance in intelligent systems & computing, book chapter 696, International springer nature Singapore pteltd.2018,doi.org/10.1.007/978-98-10-7386-1-44

## Research Publications

- **Vedansh Chaturvedi** and Saurabh Verma (2018) 'Multi response optimization of fused deposition modelling using utility based Taguchi approach, **journal of advance manufacturing system**', Vol. 17, Issue 4, 551-568
- Shashank Agrawal, **Sharad Agrawal, Dinesh kumar kasdekar** (2018), 'Optimization of MRR & Electrolyte coating thickness of ECM parameters using PCA based GRA', **Elsevier materials today proceeding**, 2018.
- Sourabh Agrawal, **M.K. Gour, Dinesh Kumar Kasdekar, Sharad Agrawal**, (2018), 'Optimization of machining parameters of hard porcelain on a CNC machine by taguchi & RSM method'. **Multi-Craft, ijest.2018**
- Sunil rathor, **Jyoti vimal, Dinesh kumar kasdekar**, (2018), 'Determination of optimum parameters for SR in CNC turning by using GRA-PCA', **Multi-Craft, ijest.2018**
- A Randive, **S Agrawal, DK Kasdekar** (2018) 'Optimum Selection of Process Parameters of CNC End Milling Using Grey Relational Analysis (GRA)', **Journal of Production Research & Management**', 8(3), 24-30.



## Patent

**Milind Omendra and Kautuk Mishra**, Final year mechanical students filed a patent on 'Pedal operated herbal mosquito repellent coil making machine'. Students developed the machine at **RuTAG cell IIT Kharagpur**.

