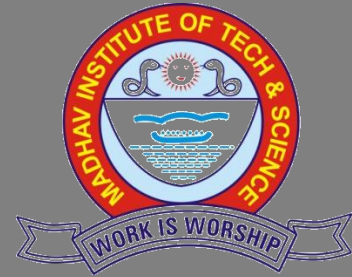


E-Newsletter

Department of Mechanical Engineering



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Madhav Institute of Technology &
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Faculty Awards & Honors

- **Dr. Jyoti Vimal** got an **elite + gold certificate** for the SWAYAM/NPTEL course-'Basics of Finite Element Analysis-I'.
- **Dr. Pratesh Jayaswal** got an **elite+ silver certificate** for the SWAYAM/NPTEL course-'Machinery Fault Diagnosis and Signal Processing'
- **Prof. Vaibhav Shivhare** got an **elite certificate** for the SWAYAM/NPTEL course-'Basics of Finite Element Analysis-I'.
- **Prof. Manish Sharma** got an **elite certificate** for the SWAYAM/NPTEL course-'Managing IPR for Universities'.
- **Prof. Dhruv Maggu** got an **elite certificate** for the SWAYAM/NPTEL course-'Steam and Gas Power Systems'
- **Prof. Manish Sharma** got an **elite certificate** for the SWAYAM/NPTEL course-'Patent Law for Engineers and Scientists'.
- **Prof. Vedansh Chaturvedi** got an **elite+ silver certificate** for the SWAYAM/NPTEL course-'Introduction to Machining and Machining Fluids'.
- **Dr. Dharmendra Jain** got an **elite+ silver certificate** for the SWAYAM/NPTEL course-' Basics of Finite Element Analysis-I'.
- **Prof. Manish Sharma** got an **elite certificate** for the SWAYAM/NPTEL course-'Joy of computing using Python'.

Editorial Team

- Prof. Bhupendra Pandey
- Prof. Sayed Faiz Ahmad

Faculty Outreached

- **Dr. M.K. Gaur** delivered a lecture on 'Advance technologies in Renewable Energy for Future Sustainability' at RGPV Bhopal (Jan 2019).
- **Dr. M.K. Gaur** delivered a lecture at An International conference on Renewable Energy and Sustainable Climate, SOLARIS, IIT Delhi (Feb 2019).
- **Dr. Manish K Sagar, Dr. Amit Aherwar and Prof. R.P. Kori** attended an FDP on 'Quality Management: Importance, Issues and Challenges' at IIT Roorkee.
- **Prof. Vedansh Chaturvedi** attended an FDP on 'Recent Advances in Casting & welding' at IIT BHU.
- **Prof. Manish Sharma** attended an STC on Brain Science and technology: tools and techniques at IIT Delhi from March 2-6, 2019.
- **Prof. K.K. Yadav and Prof. A.S. Rajput** attended a teachers training program on Advance Technologies in Automobile at NITTTR Chandigarh from Feb 25 – Mar 01, 2019.



- **Prof. Vaibhav Shivhare and Prof. Jyoti Vimal** attended a GIAN course on Mechanical Design for Price Sensitive Markets at IIT Delhi from Jan 14-18, 2019.
- **Prof. Sharad Agrawal and Prof. Dinesh Kasdekar** attended an STP on CNC Machining with Advanced CAD-CAM Applications at IIT Kharagpur from Jan 04-08, 2019.



Departmental Activities

- An **Expert Lecture** was conducted on "Self-Driving Cars" on 11 Jan 2019 by the Mechanical engineering Department. The lecture was delivered by Mr. Arpit Gupta, Worcester Polytechnic, USA.
- Terrestrial Automobile Development Club organized "Race Car Vehicle Dynamics" 2-3 March 2019. Total 93 students participated.
- An **Expert Lecture** was conducted on "Supply Chain Management" on 28 March 2019 by the Mechanical engineering Department. The lecture was delivered by Mr. Neeraj Kumar, J.K Tyre.
- A **short term course** on 'Thermodynamics and its Applications to Solar Energy Systems' was conducted by the department from March 9-18, 2019. This STC was coordinated by Dr M.K. Gaur.
- A **GIAN course** on 'Solar Energy Technology' was conducted by the department of Mechanical Engineering sponsored by TEQIP-III. In this one-week course total 32 faculty members and research scholars participated.



- A **five day STC** on 'Sustainable Development: Methods and Practices' was conducted from Feb 21-25, 2019. The STC was coordinated by Dr C.S. Malvi and Dr. Rajeev Kansal.
- A **workshop on 'Lab View'** was conducted by the department and coordinated by Dr C.S. Malvi and Prof. Vaibhav Shivhare.



Students Achievements & Activities

- **SRIJAN-2019** was organized on Feb 23, 2019 at MITS Gwalior in which 13 students participated. Under the event four activities were successfully conducted. The event was coordinated by the B. Tech. students of the Department.
- **Anup Pathak, Uddeshya bhargav and Aditya Mishra** students of B. Tech Mechanical Engineering 3rd year got **elite + gold certificate** for SWAYAM/NPTEL course 'convection and conduction Heat Transfer'.
- **Shivank Namdev, Himanshu Patel and Atul Kumar**, students of B. Tech. Mechanical Engineering 3rd year got **elite + silver certificate** for SWAYAM/NPTEL course 'convection and conduction Heat Transfer'.
- **Satvik S. Bhadauriya, Solani Gupta, Abhishek Singh, Jayesh Singh Chaurasiya and Shubham S. Tomar**, students of B. Tech. Automobile Engineering 3rd year **got elite + silver certificate** for SWAYAM/NPTEL course 'Basics of Finite Element Analysis-I'

सौर ऊर्जा को दें बढ़ावा, बचेंगे पारंपरिक स्रोत

एमआईटीएस कॉलेज में आयरलैंड से आए प्रो. ब्रायन नोर्टन ने किया संबोधित

सिटी रिपोर्टर | ग्वालियर

वर्तमान दौर में ऊर्जा के पारंपरिक स्रोत लगभग खत्म होते जा रहे हैं। यही वजह है कि अब लोगों का रुझान सौर और पवन ऊर्जा की ओर बढ़ा है। ये कभी न खत्म होने वाले संसाधन हैं और इन्हें नवीनीकृत संसाधनों की श्रेणी में रखा गया है। इसलिए इन्हें भविष्य का ईंधन कहा जाता है। हम सभी लोगों को इन ऊर्जा स्रोतों के इस्तेमाल पर जोर देना चाहिए। जिससे पेट्रोलियम और कोयला जैसे पारंपरिक ईंधन की बचत तो होगी ही, साथ ही पर्यावरण का भी संरक्षण होगा। यह बात आयरलैंड से आए प्रोफेसर ब्रायन नोर्टन ने कही। वे एमआईटीएस में ज्ञान कोर्स के तहत



फैक्टरी से घर्घा करते आयरलैंड के प्रो. ब्रायन नोर्टन।

फोटो: भास्कर

चल रहे पांच दिवसीय कोर्स के समापन समारोह में छात्रों को संबोधित कर रहे थे। उन्होंने सोलर पैनल टेक्नोलॉजी विषय पर सोलर प्लांट डिजाइन करने और इसमें टेक्नोलॉजी के इस्तेमाल के

कोयले से पैदा होती है 53 फीसदी बिजली

प्रो. नोर्टन ने कहा कि देश में 53% बिजली का उत्पादन कोयले से किया जाता है। यह उत्पादन इसी प्रकार निरंतर जारी रहा तो एक दिन कोयला समाप्त हो जाएगा। जबकि भारत के कुछ गांव में बिजली अभी तक नहीं पहुंच पाई है। ऐसे समय में हमें सौर ऊर्जा का ज्यादा उपयोग करना चाहिए। जिससे हमारे प्राकृतिक संसाधन संरक्षित रहें। इसके लिए हमें बेहतर प्लानिंग करनी होगी और ऊर्जा संसाधनों के विकल्पों पर विचार करना होगा। इससे बूट इलाकों में भी बिजली पहुंच सकेगी।

तरीके बताए। इस अवसर पर संस्थान के डायरेक्टर डॉ. आरके पंडित, कोर्स के को-ऑर्डिनेटर डॉ. मनोज गौर, आनंद कुशावह, डॉ. मनीष सागर, प्रो. प्रत्येक्ष जैसवाल आदि शामिल हुए।

सप्लाइ चैन मैनेजमेंट पर विशेषज्ञों ने दिए टिप्स



ग्वालियर। नईदुनिया रिपोर्टर

एमआईटीएस कॉलेज में गुरुवार को सप्लाइ चैन मैनेजमेंट पर लेक्चर का आयोजन किया गया। इस लेक्चर में जेके टायर के एजीएम नीरज जैन

एक्सपर्ट के रूप में मौजूद रहे। उनका कहना था कि आज के समय में सप्लाइ चैन की महत्वता इंडस्ट्रीज में बहुत बढ़ गई है। इसके साथ ही उन्होंने इंडस्ट्री में इस्तेमाल होने वाले प्रोडक्शन प्लानिंग के बारे में जानकारी दी। उन्होंने

छात्रों को टायर बनाने की संपूर्ण विधि भी बताई। अंत में उन्होंने छात्रों द्वारा पूछे गए प्रश्नों के उत्तर भी दिए। कार्यक्रम के अंत में मैकेनिकल विभाग के विभागाध्यक्ष प्रो. मनीष सागर ने आभार व्यक्त किया।



Social & Extension Activities

National Youth Day Rally

- NSS unit MITS participated in a rally on national youth day i.e. Jan 12, 2019 from Jiwaji university to Vivekananda Needam organized by NSS Jiwaji University.

National Youth Parliament

- NSS unit MITS participated in national youth parliament on Jan 24, 2019 at Madhav College Gwalior.

Rally on AIDS Awareness

- NSS unit, Red Ribbon Club and Electronics Department organized a rally on AIDS awareness from MITS to Morar Chauraha on March 23, 2019. 155 students participated in this event under the supervision of Prof. Amit Aherwar, Prof Pooja Sahu, Madhav Singh, Deep Kishor Parsetia and NSS Programme Officer.



NSS Activities

Gender Equality on Mahila Diwas

- NSS unit, Red Ribbon Club and department Mechanical engineering organised a programme on gender equality on occasion of Mahila Diwas along with Family Planning Association of India on March 8, 2019 and 25 students participated in this event.
- NSS unit MITS participated in national youth parliament on Jan 24, 2019 at Madhav College Gwalior.

Anti-Tabaco Seminar

- NSS unit, Red Ribbon Club and department Mechanical engineering organised a programme on gender equality on occasion of Mahila Diwas along with Family Planning Association of India on March 8, 2019 and 25 students participated in this event.



Patent

Dr Manoj Kumar Gaur and Prof. Anand Kushwah filed a patent on "Method and Apparatus for Controlling the Temperature of Solar Dryer"

Research Publications

- **Naresh K Raghuwanshi and Anand Parey** (2019) 'A new technique of gear mesh stiffness measurement using experimental modal analysis', Journal of Vibration and Acoustics, vol 141, page no. -13.
- **Sanni Dev, Amit Aherwar, Amar Patnaik** (2018) 'Material Selection for Automotive Piston Component Using Entropy-VIKOR Method', page no. 1-15.
- **Santosh Kumar Rajak, Amit Aherwar, Deepak Rajendra Unune, Mozammel Mia, Catalin I Pruncu** (2019) 'Evaluation of Copper-Based Alloy (C93200) Composites Reinforced with Marble Dust Developed by Stir Casting under Vacuum Environment', vol 12, page no. 1574.
- **Ankita Randive, Sharad Agrawal, Dinesh Kumar Kasdekar** (2019) 'Optimum Selection of Process Parameters of CNC End Milling Using Grey Relational Analysis (GRA)', Journal of Production Research & Management, vol 8, page no.24-30.
- **Suneel Kumar Rathore, Jyoti Vimal** (2019) 'Multi Objective Optimization in Turning Parameters of Al 6463 using Principal Component Analysis', Journal of Material & Metallurgical Engineering, vol. 7, page no. 6-15.
- **Manoj K. Gaur, Sumeet K. Singh, Akash Sood, Dharamveer S. Chauhan** (2019) 'Experimental Investigation of Physical and Tribological Properties of Engine Oil with Nano-particles Additives', part of Springer Nature, page no. 255-268.

