

TEQIP-III SPONSORED

ONE WEEK

ONLINE SHORT TERM COURSE (e-STC)

on





Prof. Udaykumar R
Yaragatti
Director, MNIT Jaipur

Prof. Murari Lal Mittal HOD, ME

Advanced Manufacturing Processes & Applications (AMPA-2020)

24 - 28 August, 2020

Coordinators

Dr. Harlal Singh Mali Dr. Anup Malik Dr. Tapas Bajpai

Organized by

Department of Mechanical Engineering
Malaviya National Institute of Technology Jaipur

Registration Link

https://tinyurl.com/y2c2u4r3





Dr. Harlal Singh Mali Coordinator



Dr. Anup Malik
Coordinator



Dr. Tapas Bajpai Coordinator

Last Date for registration is 22nd August 2020

About MNIT Jaipur

About Short Term Course

Organizing Committee

Malaviya National Institute of Technology Jaipur The field of manufacturing continues to evolve with each ranked at 35th position in NIRF 2020 Ranking.

About Mechanical Engineering Department

The Department is one of the oldest departments of the institute, offering a fine blend of experience and offering teaching. Presently, innovation in undergraduate in Mechanical Engineering and postgraduate studies in Design Engineering, Thermal Engineering, Production Engineering and Industrial Engineering. The department is home to over 100 1. There will be complete fee wavier for Women/SC/ST research scholars, pursuing Ph.D. in various fields of participants. Mechanical Engineering. The department provides a 2. No course fee will be charged from MNIT Jaipur life-long learning experience, through its state of art participants. laboratories, vast pool of courses, and industry orientation.

Address for Communication

Dr. Tapas Bajpai, Assistant Professor, Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur, J.L.N. Marg, Jaipur-302017, Rajasthan M: +91-9549650603 (O), +91-7415077671 (P) E-mail-tapas.mnit@gmail.com

(Deemed University) is one of the premier NITs, passing year. Recent developments in advanced materials designated with the status of "Institute of National and their applications in industrial sectors have significantly Importance" by MHRD. The institute was established transformed the manufacturing industry. The advent of new in 1963, and its campus spreads over 325 acres of lush processes, tools and equipment allow manufacturing green area in the central location of Jaipur city. The industries to produce products more efficiently. The demand institute offers undergraduate and postgraduate of micro components with micro features having dimensional courses (B.Tech., M.Tech. /MBA / M.Sc. & Ph.D.) to accuracy, high precision and complex geometries are about 4500 students, in leading fields of engineering, increasing day by day in the industries. Today, high tech technology, architecture, management & sciences. micro/nano product industries are facing challenges of Through the internationally renowned faculty, creating miniature features of complex shape in those laboratories with state of art equipment and excellent materials having extraordinary properties. To meet these infrastructure, the institute is actively engaged in industrial challenges, especially in the era of "Self-reliance of research, consultancy and developmental activities, a nation" the engineering graduates need to know the besides imparting regular teaching. MNIT Jaipur is application specific, advanced manufacturing processes from the researchers themselves.

The goal of this online short term course is to share with the participants the cutting edge research and development, carried out / observed, by the speakers in advanced manufacturing domain, for products having immediate industrial applications, for self-reliance of the country. The speakers are distinguished research faculties from Foreign MTAB® TC, MICROTECHNICA® AFM, JCF® AFM, Universities, IIT's, NIT's, CFTI's and other reputed institutions.

Course Fee & Payments

- 3. Participants from other institutes and industries
- □ Research Scholars: ₹ 250 (including GST)
- □ Faculty: ₹ 500 (including GST)
- ☐ Industry Participants: ₹ 1000 (including GST)

Note: E-Certificate will be provided to all the participants.

Payment Mode: NEFT/IMPS only Account Details: Registrar, MNIT, Jaipur (TEQIP-Phase III), A/C No. 36875887782, IFSC Code - SBIN0015921, State Bank of India, MNIT Jaipur Campus

Patron

Prof. Udaykumar R Yaragatti, Director, MNIT Jaipur

Chairman

Prof. Murari Lal Mittal, Head of the Department, Mechanical Engineering Department, MNIT Jaipur

Course Coordinators

Dr. Harlal Singh Mali, Associate Professor, Mechanical Engineering Department, MNIT Jaipur

Dr. Anup Malik, Assistant Professor, Mechanical Engineering Department, MNIT Jaipur

Dr. Tapas Bajpai, Assistant Professor, Mechanical Engineering Department, MNIT Jaipur

About Advanced Manufacturing & **Mechatronics Laboratory**

The Lab. houses state of the art manufacturing equipment i.e. Cincinnati® VMC, Bridgeport® CNC Milling M/c, Electronica® EDM, MIKROTOOLS® Hybrid Micro-EDM, Dynamometer, Taylor Hobson® Surface **Kistler®** Roughness Tester, Anton Paar® Rheometer, 3D printers, Sensor workbenches, PLCs, microcontrollers, DAQs etc. Lab also has a student club "MNIT CAM SOCIETY" dedicated to manufacturing https://camsociety.in/ technologies and have hosted scholars / interns from across India & Abroad. The lab not only acts as maker space but stimulates an ambiance of critical thinking, which led its students to file patents, register startups, and win many national and international competitions / like 3D Student Design Challenge, scholarships WorldSkills, SIH, Marie Curie Fellow etc.









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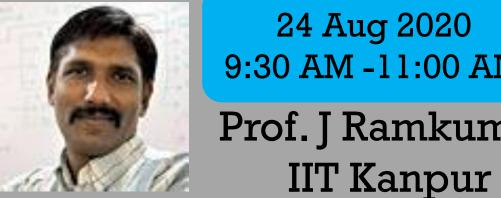
24-28 Aug 2020

Organized by

Advanced Manufacturing & Mechatronics Laboratory

Department of Mechanical Engineering

Malaviya National Institute of Technology Jaipur



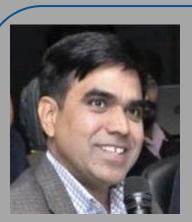
24 Aug 2020 9:30 AM -11:00 AM Prof. J Ramkumar,

Micromanufacturing



24 Aug 2020 11:15 AM -12:45 PM Prof. PK Patowari, NIT Silchar

Fabrication of Micro-Channels



24 Aug 2020 3:00 PM -4:30 PM

Dr. Harlal Singh Mali MNIT Jaipur

25 Aug 2020

3:00 PM -4:30 PM

Dr. Ravi Pratap Singh

NIT Jalandhar

Developing Advanced Finishing Technologies: Idea to Industry

Rotary Ultrasonic Machining



Course Coordinators Dr. Harlal Singh Mali Dr. Anup Malik Dr. Tapas Bajpai

Address for **Communication** Dr. Tapas Bajpai **Assistant Professor** Mobile: +91-9549650603 (O) E-mail:

tapas.mnit@gmail.com

For

Registration

https://tinyurl.

com/y2c2u4r3

25 Aug 2020 9:30 AM -10:30 AM

> Dr. R. Kuppuswamy, UCT, South Africa

> > 26 Aug 2020

9:30 AM -11:00 AM

Discrete Machining Technology on Processing Super-alloys



25 Aug 2020 10:45 AM -12:45 PM Dr. Tapas Bajpai MNIT Jaipur

Advanced Welding Processes in Aerospace Industry



26 Aug 2020 3:00 PM -4:30 PM

Banasthali Vidyapith

Forming of Composite Materials

Dr. H. Ramasawmy, University of Mauritius Processing Natural Fibre based Composites



26 Aug 2020 11:15 AM -12:45 PM

Prof. Jose Mathew, NIT Calicut

Micro-Machining of Difficult to **Machine Materials**



Dr. Sonika Sahu,

27 Aug 2020 9:30 AM -11:00 AM

Prof. KS Sangwan, BITS Pilani

Smart Manufacturing



27 Aug 2020 11:15 AM -12:45 PM

Dr. Chander Prakash LPU, Punjab

Advanced Manufacturing in **Biomedical Applications**



27 Aug 2020 3:00 PM -4:30 PM

Dr. Anup Malik MNIT Jaipur

Laser Assisted Machining Processes

S

28 Aug 2020 9:30 AM -11:00 AM

Dr. Harshit K. Dave **SVNIT Surat**

3D Printing in Industry 4.0



28 Aug 2020 11:15 AM -12:45 PM Dr. Mohammad Taufik

MANIT Bhopal

Additive Manufacturing with **Industrial Applications**



28 Aug 2020 3:00 PM -4:30 PM

Prof. Narendranath S, NITK, Suratkal

Processing of Shape Memory Alloys

OR

