



TEQIP-III SPONSORED

ONE WEEK

ONLINE SHORT TERM COURSE (e-STC)

on



Advanced Manufacturing Processes & Applications (AMPA-2020)

24 - 28 August, 2020



**Prof. Udaykumar R
Yaragatti**
Director, MNIT Jaipur



Prof. Murari Lal Mittal
HOD, ME

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>

Last Date for registration is 22nd August 2020



Dr. Harlal Singh Mali
Coordinator



Dr. Anup Malik
Coordinator



Dr. Tapas Bajpai
Coordinator



About MNIT Jaipur	About Short Term Course	Organizing Committee
<p>Malaviya National Institute of Technology Jaipur (Deemed University) is one of the premier NITs, designated with the status of “Institute of National Importance” by MHRD. The institute was established in 1963, and its campus spreads over 325 acres of lush green area in the central location of Jaipur city. The institute offers undergraduate and postgraduate courses (B.Tech., M.Tech. /MBA / M.Sc. & Ph.D.) to about 4500 students, in leading fields of engineering, technology, architecture, management & sciences. Through the internationally renowned faculty, laboratories with state of art equipment and excellent infrastructure, the institute is actively engaged in research, consultancy and developmental activities, besides imparting regular teaching. MNIT Jaipur is ranked at 35th position in NIRF 2020 Ranking.</p>	<p>The field of manufacturing continues to evolve with each passing year. Recent developments in advanced materials and their applications in industrial sectors have significantly transformed the manufacturing industry. The advent of new processes, tools and equipment allow manufacturing industries to produce products more efficiently. The demand of micro components with micro features having dimensional accuracy, high precision and complex geometries are increasing day by day in the industries. Today, high tech micro/nano product industries are facing challenges of creating miniature features of complex shape in those materials having extraordinary properties. To meet these industrial challenges, especially in the era of “Self-reliance of a nation” the engineering graduates need to know the application specific, advanced manufacturing processes from the researchers themselves.</p> <p>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 Universities, IIT’s, NIT’s, CFTI’s and other reputed institutions.</p>	<p>Patron Prof. Udaykumar R Yaragatti, Director, MNIT Jaipur</p> <p>Chairman Prof. Murari Lal Mittal, Head of the Department, Mechanical Engineering Department, MNIT Jaipur</p> <p>Course Coordinators Dr. Harlal Singh Mali, Associate Professor, Mechanical Engineering Department, MNIT Jaipur</p> <p>Dr. Anup Malik, Assistant Professor, Mechanical Engineering Department, MNIT Jaipur</p> <p>Dr. Tapas Bajpai, Assistant Professor, Mechanical Engineering Department, MNIT Jaipur</p>
About Mechanical Engineering Department		About Advanced Manufacturing & Mechatronics Laboratory
<p>The Department is one of the oldest departments of the institute, offering a fine blend of experience and innovation in teaching. Presently, offering undergraduate in Mechanical Engineering and post-graduate studies in Design Engineering, Thermal Engineering, Production Engineering and Industrial Engineering. The department is home to over 100 research scholars, pursuing Ph.D. in various fields of Mechanical Engineering. The department provides a life-long learning experience, through its state of art laboratories, vast pool of courses, and industry orientation.</p>	<p>Course Fee & Payments</p> <ol style="list-style-type: none"> There will be complete fee wavier for Women/ SC/ ST participants. No course fee will be charged from MNIT Jaipur participants. Participants from other institutes and industries <ul style="list-style-type: none"> <input type="checkbox"/> Research Scholars: ₹ 250 (including GST) <input type="checkbox"/> Faculty: ₹ 500 (including GST) <input type="checkbox"/> Industry Participants: ₹ 1000 (including GST) <p>Note: E-Certificate will be provided to all the participants.</p> <p>Payment Mode: NEFT/IMPS only</p> <p>Account Details: Registrar, MNIT, Jaipur (TEQIP-Phase III), A/C No. 36875887782, IFSC Code – SBIN0015921, State Bank of India, MNIT Jaipur Campus</p>	<p>The Lab. houses state of the art manufacturing equipment i.e. Cincinnati® VMC, Bridgeport® CNC Milling M/c, MTAB® TC, MICROTECHNICA® AFM, JCF® AFM, Electronica® EDM, MIKROTOOLS® Hybrid Micro-EDM, Kistler® Dynamometer, Taylor Hobson® Surface Roughness Tester, Anton Paar® Rheometer, 3D printers, Sensor workbenches, PLCs, microcontrollers, DAQs etc. Lab also has a student club “MNIT CAM SOCIETY” https://camsociety.in/ dedicated to manufacturing 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 / scholarships like 3D Student Design Challenge, WorldSkills, SIH, Marie Curie Fellow etc.</p>
Address for Communication		
<p>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</p>		



Online Short Term
Course (e-STC)

On

**Advanced
Manufacturing
Processes &
Applications
(AMPA-2020)**

24-28 Aug 2020

Organized by

**Advanced
Manufacturing &
Mechatronics
Laboratory**

**Department of
Mechanical
Engineering**

**Malaviya
National Institute
of Technology
Jaipur**

DAY 1



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

Prof. J Ramkumar,
IIT Kanpur

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

Developing Advanced Finishing
Technologies: Idea to Industry

DAY 2



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

Dr. R. Kuppuswamy,
UCT, South Africa

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



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

Dr. Ravi Pratap Singh
NIT Jalandhar

Rotary Ultrasonic Machining

DAY 3



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

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



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

Dr. Sonika Sahu,
Banasthali Vidyapith

Forming of Composite Materials

DAY 4



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

DAY 5



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

TEQIP-3
Technical Education Quality Improvement Programme

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](https://tinyurl.com/y2c2u4r3)**

OR

