

AICTE sponsored One week STTP on

Micromachining Technologies for Future Products

11- 15 January 2020

APPLICATION FORM

Name in Full-

Date of Birth-

Institution-

Address for correspondence-

Email ID-

Mobile No.-

Declaration:-

If selected, I agree to abide by the rules and regulation of the course and attend the course for entire duration. I also undertake to inform the coordinator in case I am unable to attend information provided above is true to the best my course, if selected

Date -

Place -

Signature of Applicant

Sponsorship Certificate

Mr./Ms/Dr. -----is a member of this Institute and hereby sponsored to participate in One-week STTP on “Micro and Nano Machining”. Please send scanned application forms to avesahemad@sitcoe.org.in on or before January 4, 2020 and submit hard copy on January 11, 2020.

Signature of Head of Institution
(With Seal)

Chief Patrons

Dr. V. R. Sastry

(Hon. Vice Chancellor)

(Dr. Babasaheb Ambedkar Technological University, Lonere.)

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(Chairman)

(Shri. Shamrao Patil Yadravkar Educational & Charitable Trust)

(MLA, State Gov. Maharashtra)

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(Institute Project Director, TEQIP-III)

(Dr. Babasaheb Ambedkar Technological University, Lonere)

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Coordinator

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Prof. Mech. Engg.

DBATU, Lonere

Dr. S. A. Khot

Principal, SITCOE, Yadrav

Co-coordinator

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HOD, Mechanical Dept.

Mr. S M Ghanvat

Asst.Prof.Mech.Engg

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Dean Faculty Development

Dr.P.M.Bhagwat

Dean Finance

Contact Details

Mr.A.S.N.Husainy

Asst.Prof.Mech.Engg

Email Id- avesahemad@sitcoe.org.in

Contact- 8007005860, 8999317886

AICTE sponsored One week STTP on

Micromachining Technologies for Future Products

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Sponsored By



TEQIP-3

Organized by



DBATU, Lonere

Venue



Department of Mechanical Engineering
Sharad Institute of Technology College of
Engineering, Yadrav

About the University

Dr. Babasaheb Ambedkar Technological University is the only technological university in the State with full funding from the State Govt. Situated in the vicinity of the historic Raigad Fort and surrounded by the hills of Sahyadri Range, the 470-acre terrain of the University campus has all the natural beauty of Konkan. The hill stations of Mahabaleshwar and Panchgani are just 80 km away. At present, the University conducts six M.Tech. and eight B.Tech. Programs in various disciplines of Engineering & Technology. The university also conducts Ph.D. programs in various disciplines of Engineering and Sciences. The University has highly qualified faculty who are committed to impart good quality education. The University is about 160 km from Mumbai and 140 km from Pune. The University is well connected by road (Mumbai Goa Highway No. NH-66) and on Konkan railway, Nearest stations: Veer (5 km) and Mangaon (12 km).

About SIT COE

It is matter of great pride and privilege to introduce our Institute. Shri. Shamrao Patil (Yadravkar) Educational & Charitable Trust's, Sharad Institute of Technology, College of Engineering, Yadrav (Ichalkaranji) (SITCOE) an NAAC 'A' grade accredited Technical institution in the State of Maharashtra. SITCOE has been established in the year 2009 with a view to "Build a Bright Future" for the young people of the Rural part of our Country. The College is approved by AICTE, New Delhi, recognized by Govt. of Maharashtra i.e. DTE, Mumbai and affiliated to Shivaji University, Kolhapur and DBATU Lonere.

About Department

The Department of Mechanical Engineering was established in year 2009 with a view to "Build a bright future" for young aspirants of the rural part of western Maharashtra. It currently offers under graduate program (180 Intake). The department is well packed with highly

motivated and dedicated faculty. The department also provides center of excellence like Design and Innovation Centre of Autodesk, and TATA Technology ready engineer's lab.

About Workshop

Micromachining is the technology for manufacturing micro sized structures. This technology has many applications, and has driven innovation in many areas such as the automotive and biomedical engineering fields. In recent years, rapid advances in technology have given rise to miniaturized and light weight products with increased and more powerful functionality. Such trend of size reduction poses demand for enhanced precision of manufactured products not only in terms of size and shape, but also the quality of the machining. The technologies include various lithographic techniques, electric discharge machining, laser machining, electrochemical machining and focused ion beam milling. These technologies involve different physical mechanisms, yield different results, and are applicable in different situations. The present workshop will introduce various techniques for micro fabrication; highlight various applications. Emphasis will be placed on physical principles and the primary objective of imparting working knowledge in the above mentioned areas will be achieved through sessions. The potential of micromachining has been noticed by the research community, inspiring the creation of many academic works.

Objectives of workshop

- To impart knowledge on advances in micro and Nano machining.
- To understand concept and range of problem that can be addressed by micro and Nano machining.
- To elaborate research avenues in micro and Nano machining.

- To provide in depth coverage of the emerging areas in micro and Nano machining.
- To provide a platform to exchange views, ideas and innovations in the field of micro and Nano machining.

Course Content

- Multi-scale science of micro- and nano-machining processes
- Innovative applications of laser-based micro-machining
- Micro reverse electric-discharge machining
- Micro-textured surfaces design and fabrication
- Micro fluidic-based devices developments
- Micro-electric-discharge and associated processes
- Ultrasonic and Vibration assisted machining and Laser machining processes
- Mechanical micro drilling and hole making processes
- Nano machining
- Metrology and micro-manufacturing case studies
- Industrial visit

Eligibility and selection criteria

Faculty members/Research Scholars from AICTE approved Engg. Degree colleges are eligible to participate. Total 40 participants are eligible on first cum first basis.

Resource Persons

Faculty members of IITs, DBATU and Reputed Institutes, Industry

Registration Fees

No registration fee for the institutes affiliated to DBATU Lonere. **(TA and accommodation will be provided to the participants)**

Place:

**Department of Mechanical Engineering
Sharad Institute of Technology College of
Engineering, Ichalkaranji (Kolhapur)**

Address: Gat No. 525, 473/A Behind Omkareshwar Temple,
Yadrav, Kolhapur District, Ichalkaranji, Maharashtra 416115

