

ABOUT UNIVERSITY

Dr. Babasaheb Ambedkar Technological University was established by the Government of Maharashtra vide Dr. Babasaheb Ambedkar Technological University Act. No. XXII of 1989 as a Unitary University. Later, the Government of Maharashtra converted this University to the Affiliating Technological University since 2016 vide Dr. Babasaheb Ambedkar Technological University Act No. XXIX of 2014 with the jurisdiction of the University as the entire state of Maharashtra.

Name of the Faculty	Area of Expertise
Dr. V. G. Sargade (PhD – IIT KGP)	Machining, Tool coatings, Surface Engineering
Dr. M. Sadaiah (PhD – PSG Tech.)	Tool Condition Monitoring, CAPP, Photochemical Machining
Dr. N. Agrawal (PhD-IIT KGP)	HVCA&R, Transcritical CO ₂ Heat Pumps system, Building Energy
Dr. R. S. Pawade (PhD-IIT Bombay)	Machining, Additive Manufacturing
Dr. H. N. Warhatkar (PhD – IIT Delhi)	Bio-Mechanics, Finite Element Analysis, Dynamics of Machines
Dr. B. F. Jogi (PhD - IIT Bombay)	Polymer Nano Composite, Machining of exotic materials
Dr. H. S. Joshi (PhD – IIT KGP)	Finite Element Analysis, Composite, Robotics
Dr. G.S.Warkhade (PhD- NIT Warangal)	Hybrid Air-Conditioning, Alternative Biofuels, IC Engines
Dr. D. B. Waghmare (PhD – IIT KGP)	Laser Welding, Modeling & Simulation
Dr. S. R. Dhale (Ph.D. Solapur Uni.)	Wire EDM
Dr. V. Y. Bhise (Ph.D.- Mech., DBATU)	Machining of Exotic Materials, Material Characterization, Sustainable Manufacturing
Mr. P. D. Agwane (M.Tech, Machine Design)	Machine Design
Mr. N. P. Kulkarni (M.Tech, Machine Design)	Machine Design
Ms. S. C. Tembhe (M.Tech, Manufacturing)	Manufacturing Engineering

B. Tech. in Mechanical Engineering

ELIGIBILITY CRITERIA

- Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories and Persons with Disability candidates)
- Centralized admission through DTE
www.dte.org.in
- Vacant seats are filled at institute level

❖ **INTAKE: 54**

❖ **ACADEMIC FEES: Rs. 42,000 (apprx.)**

- **Program Duration:** Four years (full time)
- **Social Scholarship as per GoI and GoM**
- **Hostel Facility**

CONTACT DETAILS:

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Department of Mechanical Engineering
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**Dr. Babasaheb Ambedkar
Technological University
(Main Campus)**

**Lonere, Dist. Raigad 402013 (MS)
(www.dbatu.ac.in)**

Department of Mechanical Engineering



SALIENT FEATURES

- **Fully Autonomous**
- **NAAC Accredited**
- **A State Technological University established by Government of Maharashtra**
- **NEP 2020 based curriculum**
- **Highly qualified & experienced faculty**
- **High-end research laboratories**
- **Research Collaboration with IITs, NITs, DRDO, BIS, BARC, CFIs etc.**
- **NSS and NCC**
- **Students Chapter such as SAE, ISHRAE, MESA, BIS etc.**
- **Homely environment on university campus**
- **Library with E-Journals**

Internal Combustion Engine

- Oil Extraction (Soxhlet apparatus) Facility
- Production of Biodiesel Testing on Single-Cylinder 4-Stroke VCR Diesel Engine at variable Load
- Flash Point & Fire point Apparatus for Fuel Testing
- 3-Cylinder 4-Stroke Petrol Engine (Maruti 800) for variable load test & Morse Test
- Turbocharged Diesel Engine
- Exhaust Gas Analyzer and Smoke Meter

Advanced Refrigeration and Air – Conditioning

- Indirect and Direct Evaporative Cooling
- Hybrid Air Conditioning System
- Constant Temperature Bath
- Transcritical CO₂ Heat Pump
- 4-in-1 Window Air-conditioner

Fluid Dynamics & Renewable Energy

- Hydraulic Jump Visualization
- High Speed Camera
- Solar Energy
- Renewable Energy
- Heat Transfer Enhancement

Universal Testing Machine

- Tensile, Compressive, Shear & Bend Test



OTHER FEATURES:

- Advanced research labs
- Computational and internet facility for students
- A separate departmental library
- Hostel facility for boys and girls
- A huge 468 acres campus surrounded by hills
- Playgrounds for Cricket, Football, Kabaddi, Kho-Kho, Basket-ball etc.
- Primary Health Care Center
- In campus SBI branch and ATMs

Photo-Chemical Machining

- Spin Coating machine
- Ultraviolet Exposure
- Muffle Furnace
- pH meter
- Conductivity meter
- Coating thickness meter

Centre of Advanced Machining Technology (CAMT)

- CNC Turning Machine
- CNC Vertical Milling Machine
- CNC EDM Machine
- 3 D Printer (RPT)
- Measuroscope
- Wire-EDM
- Micro hardness Tester
- Kistler Dynamometer
- Polishing Machine
- CNC Simulators
- Acoustic Emission Set-up
- High-speed Camera

DISTINGUISHED ALUMNI

- Engineers/ Managers at reputed industries such as Tata, Mahindra etc.
- Faculty at reputed foreign universities and institutes of national importance
- Scientists at national laboratories and institutes such as DRDO, BARC etc.
- Officers in civil services and other government institutions and departments.
- Entrepreneurs.