

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. N. Agrawal (PhD – IIT KGP)	HVAC&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 (PhD – Solapur Uni.)	Wire EDM
Dr. V. Y. Bhise (PhD – DBATU Lonere)	Machining of Exotic Materials, Sustainable Manufacturing
Dr. B. Kumar (PhD – IIT Roorkee)	Thermal & Fluids Engineering
Mr. P. D. Agwane (M. Tech. Machine Design)	Machine Design
Mrs. V. S. Shatpalkar (M. E. CAD/ CAM)	CAD/ CAM
Mr. N. P. Kulkarni (M. Tech. Machine Design)	Machine Design
Mr. A. P. Sawant (M. Tech. Thermal & Fluid)	Thermal & Fluids Engineering



Dr. Babasaheb Ambedkar Technological University (Main Campus)

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

UNIVERSITY DEPARTMENT OF MECHANICAL ENGINEERING

❖ PROGRAMMES OFFERED

Sr. No.	Name of the Programme	Sanctioned Intake	Apprx. Fees
1.	B. Tech. Mechanical Engineering (Sandwich Pattern)	54	₹ 42,000 (for General Category)
2.	M. Tech. Manufacturing Engineering	16	₹ 29,000
3.	M. Tech. Thermal & Fluids Engineering	16	₹ 29,000
4.	Ph. D. Mechanical Engineering	As per vacancy	₹ 29,000

❖ ELIGIBILITY CRITERIA

- **For B. Tech.:** Secured minimum 50 % marks (minimum 45 % marks, in case of Backward class categories and Persons with Disability candidates)
- **For M. Tech.:** B. E./ B. Tech. in Mechanical Engg. with minimum 55 % marks and Valid (non-zero) GATE score
- Centralized admission through DTE
- Vacant seats are filled at institute level.

CONTACT DETAILS

Dr. H. N. Warhatkar, Professor and Head
Department of Mechanical Engineering
Email: mechhod@dbatu.ac.in; Phone: 9403316374

SALIENT FEATURES

- Government Aided & Fully Autonomous
- NAAC Accredited
- A State Technological University, established and funded by Government of Maharashtra
- NEP 2020 based curriculum
- Highly qualified & experienced faculty
- Smart Classrooms with ICT mediated Teaching-Learning Pedagogy
- Air-Conditioned Classrooms
- High-end research laboratories
- A special Project Lab
- Research collaboration with IITs, NITs, DRDO, BIS, BARC, CFIs etc.
- NSS and NCC
- Student Chapters such as SAE, ISHRAE, MESA, BIS, Robotic Club etc.
- Mentor – Mentee Groups
- Incubation Center & support for Start-ups
- Additional skill development programmes
- Internship opportunities
- Social scholarships as per GoI and GoM
- Homely environment on university campus
- Departmental as well as Central Library with E-Journals
- Computational and internet facility for students
- A huge 468 acres campus surrounded by hills
- Playgrounds for Cricket, Football, Kabaddi, Kho-Kho, Basket-ball etc.
- Primary Health Care Center
- SBI branch and ATMs

Research Facilities

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

Additive Manufacturing

- Polyjet 3-D Printer (Make: 3D Systems, Germany)
- FDP 3-D Printer
- RPT Machine
- 3-D Scanner



ESTEEMED RECRUITERS

- JSW Dolvi and Vijaynager
- POSCO MH, Vile-Mangaon
- Supreme Petrochemicals Roha
- Sudarshan Chemicals Roha
- Laxmi Organics Mahad
- Technoforce Nashik
- Rajasthan Power Sanchor
- Finolex Ratnagiri
- Uttam Steel Khopoli,
- Technimont Mumbai
- Maxwell Consultant Vashi
- Privi Organic Mahad
- CIPLA Patalganga
- LUPIN Tarapur
- Vikram Ispat Salav
- Cognizant
- TCS
- Infosys, UPL etc.



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 Milling Machine
- CNC Die-sinking EDM
- CNC Wire-EDM
- 3-D Printer (RPT)
- CNC Simulators
- High-speed Camera
- Measuroscope
- Micro hardness Tester
- Kistler Dynamometer
- Surface Roughness Tester
- Acoustic Emission Set-up

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.