



Dr. Babasaheb Ambedkar Technological University Lonere





Dr. Babasaheb Ambedkar Technological University Lonere

Vision

The University is committed to become a leading 'Center of Excellence' in the field of Engineering, Technology and Science as a seat of learning with a national character and international outlook.

Mission

The University is committed to provide quality technical education, research and development services to meet the needs of industry, business, service sector and society, at large.

From the Desk of

Hon. Vice Chancellor

The Dr. Babasaheb Ambedkar Technological University, Lonere is one of the oldest and premier Universities of India. I am honoured and greatly privileged to lead this great University; and continue to address the challenges and to harness the overt and covert opportunities, in order to satisfy our stake holders. The University offers 58 UG, 66 PG and 15 Ph.D programmes. The university empowered to affiliate institutions that offer Degree, Post Graduate and Ph.D level programs in the disciplines of Engineering, Pharmacy, Architecture, Hotel Management and Catering Technology. The University has 250 Affiliated Colleges.

Teaching-Learning, Research, Consultancy, and Innovation are our strong arms to achieve the objectives, and we strive to nourish them to keep them contemporary and effective. The University is committed to create and maintain world class facilities, and creates knowledge in the frontier areas of human understanding; keeping in mind the societal needs. We provide diverse opportunities and appropriate guidance to the young students coming into our fold and transform them into self-reliant, responsible, and mature citizens.

I am confident that the Dr. Babasaheb Ambedkar Technological University, Lonere is marching in the right direction, shaping the human resources, and contributing to the nation building.



Dr. Karbhari V Kale
Vice Chancellor

Dr. Babasaheb Ambedkar Technological University, Lonere

About the

University

Dr. Babasaheb Ambedkar Technological University was established by Government of Maharashtra vide Dr. Babasaheb Ambedkar Technological University Act. No. XXII of 1989 as a Unitary University. Later, the Government of Maharashtra converted the University to the Affiliating Technological University in the year 2016 vide Maharashtra Act No. XXIX of 2014 with the jurisdiction of the University as the entire state of Maharashtra. Presently, 240+ institutes are affiliated to the University and the total student strength is more than one lakh.

“*The University is at western Ghat, at the foot of Raigad Fort from where Chhatrapati Shivaji Maharaj administrated his major activities*”

The sprawling 468 acres campus of this University provides as a sanctum seat of learning across the state. The University attracts meritorious students from the entire state and moulds them into employable engineers and competent technocrats.

This University provides well equipped laboratories with testing and analysis facility which can be extended for the benefit of the industries. In addition, the University offers facilities like conference hall, auditorium, playground, workshop, computing facilities. The University has spacious and conditioned hostels with all basic amenities.

The University is blessed with highly qualified faculty who are committed to impart best kind of knowledge through effective teaching learning process. The faculty and staff of the University believe that achieving excellence is the challenging task and they continuously strive for it. The University also provides conducive environment and opportunities to the students for research and innovation which leads to create entrepreneurs. The University is empowered to affiliate institutions that offer UG, PG and Ph.D. level programs in the disciplines of Engineering, Pharmacy, Architecture and Hotel Management and Catering Technology. Presently, the University offers 58 UG, 66 PG and 15 Doctoral research programmes in various disciplines

National Education Policy (NEP-2020)

“*Dr. Babasaheb Ambedkar Technological University, Lonere is the First University in the country to create awareness on New Education Policy 2020.*”

University implemented various reforms in line with NEP like

- Admission to any PG program irrespective of UG programs
- Integrated PG Programs
- Multiple entry-exit facility
- Choice based credit system
- Academic credit bank (in process)
- Honor and Minor degrees
- Six month industrial internship
- Interdisciplinary Ph.D programs
- Development of curriculum with involvement of all stake holders
- Frequent revamping of curriculum as per the need of the hour
- Introduction of open electives at university level
- Mandatory subjects from emerging areas notified by AICTE.
- 20% Mandatory Courses of each semester are to be completed through online platforms like SWAYAM/NPTEL/Coursera (The credit transfer of these courses is carried as it is by the University)

Also, there are courses on Financial Management, Universal Human Values, Artificial Intelligence, Basic Human Rights, Employability and Skill Development, Foreign Language studies are made mandatory by the University

To full-fill requirement in line with NEP-2020 it is necessary to establish various schools. The programs under these new schools will be selected in the emerging areas which will full-fill current needs of the industries and society. Further, these programs will help to improve GER and placement of the students. The following six schools will start from AY 2022-23 by the University authority in the main campus of the University:

The School of Engineering and Technology
The School of Management Studies
The School of Marine Sciences

The School of Health Sciences
The School of Applied Social Sciences
The School of Earth Sciences.

Faculty

University is blessed with well qualified dedicated faculty with a wide teaching experience and specializations in various fields imbibe the rich spectrum of knowledge to the students.

Most of the faculty members are M.Tech and PhD from institutions of eminence including IITs, NITs and Universities. With the deliberations to bring the cultural diversity, faculty are included from across the country.

The faculty constantly upgrades their knowledge by attending national and international events and encouraged by University to submit research projects and carry out research.

100 plus research papers have been published in National and International Journals and Conference proceeding in year 2021 & 2022

Faculty members are also involved in individual consultancy and research projects.

Academic Programs



Facility for studying the subject of Post Graduate Courses in Graduate semesters



The different programs at University combine, in right amounts, building the technical fundamentals providing an exposure to real industry problems

Diploma

Admissions to the diploma courses are effected according to the rules framed by the Government of Maharashtra.

The admissions are made through CAP accordingly, 70% of the seats are reserved for students from Raigad district.

The remaining 30% of seats are reserved for students from rest of Maharashtra.

- Chemical Engineering (1982)
- Petrochemical Engineering (1993)
- Polymer & Plastic Engineering (1993)
- Instrumentation Engineering (1994)
- Computer Engineering (1995)
- Electronics & Telecommunication Engineering (1995)
- Information Technology (2001)

Under Graduate

Admissions to the degree courses are given according to the rules framed by the Government of Maharashtra and through CAP Admissions to 85% of the seats are given through CAP & 15% of seats reserved for students from Konkan area

B.Tech. Course

- Petrochemical Engineering (1989)
- Mechanical Engineering (1993)
- Chemical Engineering (1993)
- Computer Engineering (1995)
- Electronics & Telecommunication Engineering (1995)
- Electrical Engineering (1995)
- Information Technology (2001)
- Civil Engineering (2008)
- VLSI Design and Technology (2022)

(All B.Tech courses have duration of 4 years & an intake 54, except EXTC Engg. which is 90 and VLSI Design and Technology which is 30)

Post Graduate

Students are admitted through GATE & in-house entrance test to the PG courses

M. Tech. Courses

- Chemical Engineering (2001)
- Computer Engineering (2001)
- Electronics & Telecommunication Engineering (2001)
- Environmental Engineering (2002)
- Manufacturing Engineering (2002)
- Thermal & Fluids Engineering (2003)
- Power System Engineering (2008)
- Remote Sensing and GIS (2022)
- Cyber Security (2022)

(All M.Tech courses have 2 years duration with 16 intake except for except for Cyber Security and Remote sensing and GIS which is 30)

MBA Course

- Innovation, Entrepreneurship and Venture Development (2022)
(intake - 30)

University also offers Doctoral research programs in Science & Engineering.

Research Facilities and Areas

Students are admitted to Doctoral research program as per the University guidelines. Every year 12 research fellowships for maximum period of three years are offered by the University in order to attract quality students.

The research is carried out in all the Departments of University including science and humanities. Recently University has adapted NEP-2020 policy to encourage interdisciplinary research. Departments always strive to carry out research in the emerging areas with help and support of supervisors who are trained in institutes of national repute. Presently around 120 research scholars are perusing their research in main campus of the University.

The University has very good infrastructure in the form of high end computational facilities, Central fabrication facility like fabrication of PCB, PCM, 3-D components and antennas etc. The University is equipped with state-of-the art laboratories in all the departments. Research journals and proceedings are easily accessible to all research scholars and research guides through the University library, in offline and online mode.

The University has strong linkages with industries, institutes of national importance and research organization such as NCL, BARC, SAMEER, IITB, IITKGP, IITI, NMRL, SPPU, RFRF etc.

Faculty regularly publishes their research in the journals and conferences of international repute. The University has exhibited it's strong presence in the areas of Biomedical Signal Processing, Design of Antennas, Crypto-currency, Geospatial technology, transcritical CO₂ heat pump system, micromachining, Photochemical machining through publications.

Areas of Research

- Bio-medical Signal Processing and health care technologies,
- Image, Speech, Audio and Video Signal Processing, NLP,
- Cyber Security and Crypto currency,
- Remote Sensing and GIS, 3-D Printing,
- AI, ML, Data Science and Big Data Analysis, Soft computing, Cloud Computing, Artificial neural networks,
- VLSI Design and Technology,
- Biodiesel production and testing, Hydraulic jumps, Natural refrigerants, Heat Pump,
- PCM, Nanomaterial, Surface coating, robotics, drones, Micromachining, bio-mechanics, building energy conservation
- Chemical Reaction Engineering, Reactive Separation, Reactive Distillation, Reactive Chromatography

Amenities

Conference Hall

Conference hall is used for events and workshops. It is well decorated, air conditioned and can accommodate more than 100 students.



University Conference Hall



University Guest House

University Guest House

"Anandvan" the University Guest House is located at the center of University campus with built up area of 1700 sq.ft. The physical facilities provided include 2 VIP suites, 3 AC suites, 17 Ordinary suites.

Digital Studio

The University has Established State-of-the-art of Digital Studio at University through TEQIP-III project which will be useful for creating and broadcasting e-contents.



Digital Studio

Laboratories and other facilities

- Departments of the University has well equipped laboratories with advanced equipments & research facilities. Computer centre with linux workstations & latest Unix servers serves as a centrally computational facility.
- University Library is an integral part of the University. Library helps students and faculty to explore updated & latest information to their field of interest, helps researchers to get information through different media that are useful for writing their dissertations & thesis. The University library has rich collection of 100000+ volumes and titles. In the year 2021-2022 the university has subscribed for 83 journals.
- Computer Center and facilities
Computer centre has 100 PC's for the students.
University is having 1GBps leased line for the internet facility



Innovation and Incubation Center

The DBATU FORUM OF INNOVATION INCUBATION AND ENTERPRISE Incorporated as Section 8 company on 4th November 2019 the Corporate Identity Number of the company is (CIN No-U85300MH2019NPL332513). It will provide an ecosystem to enterprising students and immediate alumni of the University, its affiliated colleges and other emerging technology-based businesses that would support their start-up phase and increase their likelihood of success. It will provide working space, flexible lease, common office, and laboratory facilities, business guidance, mentoring, and other technical resources in network mode at the Main Centre of the University.

The Incubation Centre is able to host approximately six to ten clients at a time in a proposed 5,000 square feet facility that would include a mix of office and lab space & necessary infrastructure for prototype building & legal support. The facility is owned by the University and the State of Maharashtra. The grant of Rs. 5 Cr is sanctioned by GoM for the duration of 5 Years, out of which first tranche/installment of Rs. 25 Lakh is received by the company. Looking into the performance of 2020-21 second installment of Rs. 50 lakh against sanctioned amount will be released soon.

The presence of the Centre on the University campus, as Startup Ecosystem, is motivating the young engineers to become job providers rather than job seekers. This culture of creation of entrepreneurs is being propagated to colleges affiliated to the University.

This University Company has a network of a pool of industry professionals, technologists, and business owners that are willing to volunteer on the Advisory Board of the Centre. They provide timely guidance and mentoring at various stages of the businesses development to the Incubatee (s).

The company is regularly organizing various programs to create awareness about Start-ups, Entrepreneurship, and conversion of ideas into to prototypes, product development, and preparation of business plan. Also, creating awareness about various opportunities available for funding and support under various schemes such as NIDHI PRAYAS, MSINS, AIC, MoE, DST, ASIM etc from Government.

Students

Broad diversity in the cultural, social & economic back grounds makes the students broad minded to feet the global careers.

Students of BATU undertake various activities that contribute to development of multi-dimensional personality.

The students at BATU are front runners in all phases of life that include their creative outcomes like the "Tech Fests", the sports "Abhiyan"..... & many more countless blends of academics & sports, making them stand apart from the crowd...& this has proven to be avant-garde in every path of success

BATU is extremely proud of its Alumni. Several events and initiatives are carried out to foster student and alumni relations mark the calendar of BATU.

Today, the Alumni of BATU have distinguished themselves globally through sheer mater talent, commitment & hard work & established a worldwide image for their Alma mater as a great educational institution.

The dynamic & relevant academic programs contribute to national development projects. For the University, the true worth of its activities, in the long run, is the success of its alumni.

It makes the institute proud, to know that its alumni have achieved success in their endeavors & reached the highest position in all fields.