

Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra



Dr. Karbhari Vishwanath Kale,
Vice-Chancellor





Mission and Vision

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.

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.



About 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 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.

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- 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.
- University also provides conducive environment and opportunities to the students for research and innovation which leads to create entrepreneurs

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- 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.

Level of the Programme	Number of existing Program	New Programs during the year
PhD	15	-
PG	07	03
UG	08	01
Advanced Diploma	01	-
Diploma	08	-
Total	36	04

Status



Particulars	Status
Research and Innovation	<p>University's commitment to excellence in research is a foundation on which our exciting academic environment is built.</p> <p>University has well equipped, advanced research laboratories.</p> <p>University has its own incubation center (registered as section 8 company) to encourage students and faculties to carry out product based research.</p> <p>Incubation center and Start-up unit together conducts Research Idea competition every year to identify innovative ideas which can be converted to successful startups.</p>
Examination and Evaluation system	<p>University adopted system of online Video proctored examination for all UG & PG courses.</p> <p>University successfully implemented complete online process for evaluation.</p>

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Particulars	Status
Curriculum	Implemented various reforms in line with NEP like <ol style="list-style-type: none">1. 20% Mandatory Courses through online platforms like SWAYAM/NPTEL/Coursera.2. Multiple entry-exit facility.3. Fully choice based credit system.4. Academic credit bank.5. Honor and Minor degrees.6. Six month industrial internship.7. Interdisciplinary Ph.D programs.8. Development of curriculum with involvement of all stake holders.9. Frequent revamping of curriculum as per the need of the hour.10. Introduction to open electives at university level.
Pedagogy	Curriculum is designed to encourage learning processes (memory, attention, observation) and cognitive skills (reasoning, comparing and contrasting, classification).

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Particulars	Status
Vocational courses	University offers different vocational courses like: Automobile servicing, Industrial Tool Manufacturing, Electronics Manufacturing Services, Medical Laboratory Technology, Mechatronics etc.
Student cell/ Student activities	Every department has different students cells and they conduct different technical/social/cultural activities like Technical festivals, Hackathon, Cultural gatherings, Community services etc. There are about 30 clubs in the University for promoting student activities.

Implementation of 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

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- ❖ Interdisciplinary Ph.D programs
- ❖ 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)



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- 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.

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- The following six schools will start from AY2022-23 by the University authority in the main campus of the University:
 - ❖ The School of Engineering and Technology
 - ❖ The School of Health Sciences
 - ❖ The School of Management Studies
 - ❖ The School of Applied Social Sciences
 - ❖ The School of Marine 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



Academic Programs

- 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

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Diploma Courses

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

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- **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

(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)

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B. Tech Courses

- 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)

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Post Graduate Programs

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

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)

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MBA Course

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

Also

- 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.

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- 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, Cryptocurrency, Geospatial technology, transcritical CO2 heat pump system, micromachining, Photochemical machining through publications.

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- **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



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- **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.



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- **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.



Laboratories and other facilities



- Departments of the University has well equipped laboratories with advanced equipment & 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.

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- 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.

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- 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.

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- 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).

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- The company is regularly organizing various programs to create awareness about Start-ups, Entrepreneurship, and conversion of ideas into 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 multidimensional 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 avantgarde in every path of success

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- 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.

MoUs



- Savitribai Phule Pune University joint research, innovation & entrepreneurship activities, and exchange programme.
- Indian Institute of Geomagnetism, New Mumbai for collaborative R & D Academic interactions leading to higher qualifications.
- MoU with e-cell of IITKGP for joint entrepreneurship program.
- Millionminds Ecosystem, Mumbai for Entrepreneurship and Start-up activities to help students with a chance to penetrate into the Startup ecosystem from the beginning of their careers.
- Research for Resurgence Foundation (RFRF) for making advanced research facilities available to the University.

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- ASTEC Life-Sciences Limited, Mahad for conducting One year Certificate course for their employees.
- Marathwada Accelerator for Growth and Incubation Council (MAGIC), Aurangabad for training and internship
- INTERNSHALA with the help of Alumni Association for internship of the students.
- Doshi Vakil Arts College and GCUB Science and Commerce College Goregaon for cooperation enhancement in the field of Academics, Research and various students' development activities.

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- The University has decided to Collaborate with foreign Universities for multidisciplinary research particularly in the domain of Agriculture, Earth, Health and Marine Sciences in the near future. Also, process of taking permission for PG and PG-PhD integrated programs in the mentioned domain from UGC/AICTE/GoM will be initiated very soon.



THANK YOU

Vision and Mission of DBATU:

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.

The journey of a thousand miles starts with one little step. The idea of establishing a Technological University in Konkan region as an instrument of economic development was conceived by the Government of Maharashtra in 1981. As per the recommendations of an Expert Committee, the Government of Maharashtra established Dr. Babasaheb Ambedkar Technological University; vide Act No. XXII of 1989. The University was of the unitary type of University, and the territorial limits within which the powers were conferred upon the University by or under this Act were exercised, comprised the entire University area.

Later, Government of Maharashtra converted the University to the Affiliating Technological University from the year 2016 vide Maharashtra Act No. XXIX of 2014 with the jurisdiction of the University as the entire state of Maharashtra. Presently, 275 institutes are affiliated to the University and the total student strength is more than one lakh. The distinct character of the University is its state technical university status with entire Maharashtra as its area of activity. The University attracts meritorious students from the entire state and molds them into employable engineers and competent technocrats. 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 & Catering Technology.

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The sprawling 468 acres of the campus of this University provides as a sanctum seat of learning across the state. The University attracts meritorious students from the entire state and molds them into employable engineers and competent technocrats. This University provides well-equipped laboratories with testing and analysis facilities that can be extended for the benefit of the industries. In addition, the University offers facilities like conference hall, auditorium, playground, workshop, and computing facilities. The University has spacious and good hostels with all basic amenities.

The University is blessed with highly qualified faculty members who are committed to impart the best kind of knowledge through an effective teaching-learning process. The faculty and staff of the University believe that achieving excellence is a challenging task and they continuously strive for it. University also provides a conducive environment and opportunities to the students for research and innovation which leads to creating 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 & Catering Technology.

R1. CREDIT SYSTEM AND MODE OF EVALUATION

1. Credit System and Mode of evaluation

All the courses in the University and affiliated colleges shall be credit based and the evaluation will be grade based. Credit based grading system is a systematic way of describing an educational programme by attaching credits to its components. The definition of credits may be based on different parameters, such as student workload, learning outcomes and contact hours.

It is a student-centric system based on the **student workload** required to achieve the objectives of a programme. It should facilitate academic recognition of the courses and mobility of the students.

Credits assignment is based on the principle that Credits can only be obtained after successful completion of the work required and appropriate assessment of the learning outcomes achieved.

Student workload consists of the time required to complete all prescribed learning activities such as attendance at lectures/practical, seminars, projects, etc. Credits are allocated to all the educational components of a study programme and indicate the quantity of work each component requires to achieve its specific objectives.

Evaluation is an important component of any teaching-learning process. The University gives emphasis on continuous evaluation with considerable freedom to the teacher in deciding the mode of evaluation of the students. The performance of the student is documented by a **grade** at the end of the semester. The grading scale ranks the students on a statistical basis. Therefore, statistical data on student performance in his/her class is a prerequisite for applying the grading system.

2. Course Credits

In general, a certain quantum of work measured in terms of **credits** is laid down as the requirement for a particular degree. The student acquires credits by passing courses every semester, the amount of credits associated with a course being dependent upon the number of hours of instruction per week in that course.

There are mainly two types of courses in the University - lecture courses and laboratory courses. Lecture courses consist of lecture (L) and tutorial (T) hours. Laboratory courses consist of practical (P) hours. As per the AICTE norms, the credit (C) for a course is dependent on the number of hours of instruction per week in that course, as given below:

- (1) 1h/week of lecture (L) or tutorial (T) = 1 credit
- (2) 2h/week of Practical's (P) = 1 credit
- (3) Credit (C) for a theory course = No. of hours of lectures per week + No. of hours of tutorials per week = L + T
- (4) Credits (C) for a Laboratory course = $\frac{1}{2}$ x No. of hours of laboratory course per week

Credits will be assigned to Industrial Training, Seminar, Projects and other mandatory course requirements also and these will be mentioned in the respective syllabi. There may be some non-credit requirements. A student is required to earn credits as mentioned in the syllabus.

3. Evaluation

3.1 The weightages of different modes of assessments shall be as under.

In-Semester evaluation				
	Continuous mode(CA)	Mid Semester Exam	End-Semester-Exam	Components of continuous mode
Theory	20%	20%	60%	Quizzes, class tests (open or closed book but minimum 2 in the semester if only mode of CA), home assignments, group assignments, <i>viva-voce</i> discussions
Practical's	60%	-	40%	Attendance, completion of experiments <i>viva -voce</i> , journal submission, assignments, project, experiments, announced tests

3.2. In-Semester Evaluation

- It is expected that the teacher would conduct at least two formal assessments of the students under the continuous assessment mode in a Semester.
- The teacher will announce at the beginning of the respective course the method of conducting the assessments under the continuous mode and the assignment of marks and inform the same to the Director- Academics or Dean in University or Principal/HoD in affiliated college in the first week of the semester. The same may be also displayed on the University/ College Portal.
- The teacher shall keep the record of the continuous assessment of a class at least for three years and produce it to the Principal of the college or Director-Academics, if needed.
- In-semester performance of all students, both continuous assessment and mid-semester examination should be displayed on notice board as well on College / University Portal and sent to the academic office of the University/ College by the teacher before the end-semester examination.
- For the theory courses, there will be one Mid-semester test for each course to be held as per the schedule fixed in the Academic Calendar of the University/college, preferably in the eighth week of the semester
- A candidate who has not appeared for the in-semester continuous tests and/or mid-term examination in one or more subjects shall be considered to have not completed the course and will have to re-register for the respective subjects/course in the following year.

3.3. End-Semester examination

The semester end examination will cover the full syllabus of the course and will be conducted as per the University time table at the end of each semester.

3.4 Passes and Fail

(revised as per the Item 8 of the Minutes of the Academic Council Meeting held on 19th August 2017)

- (a) The candidates who obtain 40% and more marks in a subject head of the end semester examination **AND** 40% or more of the total marks of a subject head shall be deemed to have **passed** the respective subject head.
- (b) The candidates who obtain less than 40% of marks in a subject head of the end semester examination and less than 40% the total marks of a subject head shall be deemed to have **failed** in the respective subject head (**Grade FF**).

3.5 Grades

- (a) The performance of a student shall be documented by a **Letter grade**. Each letter grade has a **Grade point** associated with it. The Grades and Grade points shall be assigned to each head of passing and both will be indicated in the mark-list of the semester examination.
- (b) A teacher shall assign absolute marks to all the in-semester tests and the end-semester tests for the respective subject head. The teacher shall collate the marks in the mid-semester and continuous mode examinations, convert them to prescribed 20% and 20% mark, respectively and submit the same to the office.
- (c) The total marks (continuous assessment + mid-semester + end-semester) of a candidate in a subject head are converted into a letter grade, based on the relative performance of the student in the class taking examination in the subject. The performance of the students who have passed the said subject shall be considered for the allotment of the relative grade on statistical basis.

Letter Grade	Grade Point
EX	10
AA	9.5
AB	9
BB	8.5
BC	8.0
CC	7.5
CD	7
DD	6.5
DE	6.0
EE	5

- (d) The grades to be allotted in the case of students who fail or do not appear at the end-semester examination shall be as under

Letter Grade	Grade Point	Explanation
FF	0	The candidate fails in subject head. The candidate will be allowed to take end-semester repeat or subsequent examinations as per rule.

XX	0	(i) The candidate has not kept term for the subject head due to attendance less than requisite 75%. (ii) The in-semester performance of the candidate is very poor. Further see 7.3.5(g) In the above cases, the candidate has to repeat the respective course by paying the fees in the following year
I	0	The candidate has kept term for the subject head, has taken all the internal examinations with satisfactory performance, but has failed to take the end-semester examination due to genuine reasons. The candidate will be allowed to take subsequent examinations as per rule
FR	0	The candidate has exhausted all the permissible chances to clear the end-semester examinations. The candidate has to register for the respective semester again for all the subject heads or will be out of the respective degree course as per the rules.
DR	0	(i) The candidate hasn't participated in academic programme. (ii) The candidate has taken a drop for the subject head;- provided he/she intimates the same (i or ii) at least 7 days in advance of the commencement of the end-semester examination for the respective year.

- (e) Grades **FF** and **I** are place-holders only and do not enter into CGPI/SGPI calculations directly. These grades get converted to one of the regular grades after the end-semester examination.
- (f) A candidate with an **FR** grade has appeared for maximum number of permissible six end semester examinations and has to re-register for that course by paying the appropriate fees.
- (g) **I** grade will not be continued beyond the permissible number of six consecutive end semester examinations, irrespective of whether the candidate fails to take any of these exams.
- (h) '**XX**' Grade: The grade **XX** in a course is awarded if – (i) a candidate does not maintain the minimum 75% attendance in the Lecture/Tutorial/Practical classes, (ii) the student has bad or incomplete in-semester records, for example, a candidate missing all internal tests and mid-semester examination, etc., (iii) a candidate indulges in a misconduct/uses unfair means in the examination, assignments, etc., of a nature serious enough to invite disciplinary action in the opinion of the teacher.
(Note: Award of the **XX** grade in the case of g(iii) above shall be done by Disciplinary Action Committee (DAC)).
- (i) The names/roll numbers of students to be awarded the **XX** grade should be communicated by the teacher to the Academic office as per academic calendar before the last date of submission of the application for end-semester examination.

3.6. Awarding the grades

- (1) The grading scale ranks the students on a statistical basis on the basis of the overall performance of the students of a given class in the given subject head. Therefore,

statistical data on students' performance is a prerequisite for applying the grading system. While assigning grades in a given subject head, it is essential to know the **average marks (AM)** obtained by the students who have passed the subject head and the **highest marks (HM)** obtained in the same subject head.

- (a) **EX** Grade shall be awarded to the candidate(s) who scored highest mark (**HM**) in the concerned subject head provided the marks obtained are 80% or higher in the given subject head.
 - (b) If the **average marks (AM)** obtained by the students who have passed the subject head is $<60\%$, the interval AM shall be awarded grade CD and the other grades shall be decided as follows.
 - (c) AA, AB, BB, BC and CC grades shall be decided between the AM and HM by dividing the range in equal intervals.
 - (d) CD, DD, DE and EE grades shall be decided between the AM and minimum marks required for passing the head (i.e. 40%) by dividing the range in equal intervals.
- (2) If the **average marks (AM)** obtained by the students who have passed the subject head is such that $60\% \leq AM < 70\%$, the interval AM shall be awarded grade CC and the other grades shall be decided as follows:
- (a) AA, AB, BB grades shall be decided between the AM and HM by dividing the range in equal intervals.
 - (b) CC, CD, DD, DE and EE grades shall be decided between the AM and minimum marks required for passing the head (i.e. 40%) by dividing the range in equal intervals.
- (3) If the **average marks (AM)** obtained by the students who have passed the subject head is $\geq 70\%$, the interval AM shall be awarded grade BB and the other grades shall be decided as follows:
- (a) AA, AB and BB grades shall be decided between the AM and HM by dividing the range in equal intervals.
 - (b) BC, CC, CD, DD, DE and EE grades shall be decided between the AM and minimum marks required for passing the head (i.e. 40%) by dividing the range in equal intervals.
- (4) Illustration of award of different grades are explained in the following examples:
- i) Example 1: HM = 92, AM = 76
Hence, $I_L = (76-40)/6 = 6$, $I_U = (92-76)/3 = 5.33 \approx 5$
 - ii) Example 2: HM = 84, AM = 62
Hence, $I_L = (62-40)/5 = 4.4 \approx 4$, $I_U = (84-62)/4 = 5.5 \approx 6$

Marks distribution for different grades:

Sr. No.	Letter Grade	Example 1 (HM=92, AM= 76, $I_L = 6, I_U = 5$)	Example 2 (HM=84, AM= 62, $I_L = 4, I_U = 6$)
1	EE	40 to 45	40 to 43
2	DE	46 to 51	44 to 45
3	DD	52 to 57	48 to 50
4	CD	58 to 63	52 to 55
5	CC	64 to 69	56 to 62
6	BC	70 to 76	63 to 68
7	BB	77 to 81	69 to 74
8	AB	82 to 86	75 to 80

9	AA	87 to 91	81 to 83
10	EX	92	84

4. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

(a) Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by Semester Grade Point Average (SGPA) which is a weighted average of the grade points obtained in all the courses taken by the student in the semester and scaled to a maximum of 10. (SGPI is to be calculated upto two decimal places). A Semester Grade Point Average (SGPA) will be computed for each semester as follows:

$$SGPA = \frac{\left(\sum_{i=1}^n c_i g_i \right)}{\left(\sum_{i=1}^n c_i \right)}$$

Where

‘n’ is the number of subjects for the semester,

‘ci’ is the number of credits allotted to a particular subject, and

‘gi’ is the grade-points awarded to the student for the subject based on his performance as per the above table.

SGPA will be rounded off to the second place of decimal and recorded as such.

(b) Cumulative Grade Point Average (CGPA):

An up to date assessment of the overall performance of a student from the time he entered the Institute is obtained by calculating Cumulative Grade Point Average (CGPA) of a student. The CGPA is weighted average of the grade points obtained in all the courses registered by the student since s/he entered the Institute. CGPA is also calculated at the end of every semester (upto two decimal places). Starting from the first semester at the end of each semester (S), a Cumulative Grade Point Average (CGPA) will be computed as follows:

$$CGPA = \frac{\left(\sum_{i=1}^m c_i g_i \right)}{\left(\sum_{i=1}^m c_i \right)}$$

Where

‘m’ is the total number of subjects from the first semester onwards up to and including the semester S,

‘ci’ is the number of credits allotted to a particular subject, and

‘gi’ is the grade-points awarded to the student for the subject based on his/her performance as per the above table.

CGPA will be rounded off to the second place of decimal and recorded as such.

(c) The CGPA, SGPA and the grades obtained in all the subjects in a semester will be communicated to every student at the end of every semester / beginning of the next semester.

- (d) When a student gets the grade 'FF', or I' in any subject head during a semester, the SGPA and CGPA from that semester onwards will be tentatively calculated, taking only 'zero' grade point for each such 'FF' or 'I' grade. When the 'FF' grade(s) has / have been substituted by better grades after the repeat examination or subsequent semester examination, the SGPA and CGPA will be recomputed and recorded.

5. Supplementary End-Semester Examination

(revised as per the item 7 of Minutes of the Academic Council meeting held on 19th August 2017)

- (1) For those candidates who fail in a subject head or are eligible for appearing at the repeat examination, **A Supplementary End-Semester Examination of odd semester will be conducted before the regular End semester examination of the even semester.**

- (2) **A Supplementary End-Semester Examination of even semester will be conducted before the regular End semester examination of the odd semester.**

- (3) The marks obtained by candidates in the in-semester examinations (continuous assessment and mid-term examination) will be carried forward in such cases.

- (4) **Grading the performance in the Supplementary Examination:**

The grades will be assigned as per 3.5 and 3.6 above.

- (5) **Revaluation of end-semester and Supplementary examination:**

Candidate's performance in these examinations will be announced on web portal of the University and after one month of such announcement the grade statements will be sent to the concerned Department for distribution to the students. Those who want to get the photocopy of their answer books are required to pay the requisite fee. Revaluation of these examinations shall be allowed. Those who would like to have the revaluation of their answer books are required to pay a requisite fee.

- (6) **Remedial examination**

The candidate will have an option of appearing for an Online Remedial Examination, after the declaration of each End-semester examination results, to pass the subject head where he/she has failed in regular end-semester examination of the semester. The candidate will get only EE grade if he clears the remedial examination and can continue with the next semester. However, for improving his grade in the same subject head, the candidate will have an option of appearing in the 'same' subject in the Supplementary Examination before the regular end-Semester examination.

6. Passing of a Semester Examination

A candidate shall be declared as '**PASSED**' any semester examination if he/she has

- (a) Cleared all heads of passing by securing grades EE or higher in all the heads;
- (b) Passed all the heads of passing such as project, seminar, training, etc as per the rules;
- (c) Satisfactorily completed all the mandatory requirements of the course;
- (d) paid all the University/college dues;
- (e) No case of indiscipline pending against him/her.

7. Eligibility for the Award of a Degree

A candidate shall be declared eligible for the award of a degree, if he/she has cleared all the semester examinations as given in (6) above.

8. Allowed to keep terms (ATKT)

- (1) A candidate who has II grade in one or more heads of passing of an odd semester of an academic year shall be allowed to keep terms for the respective even semester.
- (2) A candidate (other than those specified in 6) shall be allowed to keep terms for the subsequent academic year as per the following:
 - (a) At the end of 1st year a candidate shall be allowed to keep terms (ATKT) to 2nd year of study provided he/she attends course work prescribed for 1st year with prescribed attendance and successfully cleared at least 60% of the total credits specified for 1st year program.
 - (b) At the end of 2nd year a candidate shall be allowed to keep terms to 3rd year of study provided he/she attends course work prescribed for 2nd year with prescribed attendance, and successfully cleared 1st year program and at least 60% of total credits prescribed for 2nd year program.
 - (c) At the end of 3rd year a candidate shall be allowed to keep terms to final year of study provided he/she attends course work prescribed for 3rd year with prescribed attendance, and should have completed 2nd year program and 60% of total credits prescribed for 3rd year program.

All such candidates fulfilling the above criteria shall be declared as **FAILED, ATKT**

9. Repeating a course

- 1) A student is required to repeat the course of a subject head under the following situations:
 - (a) A student who gets an **XX, FR, or DR** grade in a course; or
 - (b) A student has exhausted all permissible chances to clear the subject head.
- 2) A candidate from second, third and fourth years who remains absent for the regular end-semester examination of a semester and the corresponding repeat examination for **ALL SUBJECTS** shall have to take fresh admission for the corresponding year; unless the candidate has dropped out / terminated from the course.
- 3) If a candidate at the Second, Third or Fourth year fails to pass any semester examination in not more than 6 consecutive examinations, including the supplementary examinations, from the date of registering for the respective year, the candidate shall have to take readmission for the corresponding year again in which the failure has occurred, provided the course is not changed.

10. Improvement of performance

If any student is failed to secure First Class at the end of B.Tech. Programme then he/she may be allowed to improve the class by Re-registering some of the courses he/she studied during Second year to Final year of B.Tech. Programme. In case there is, no improvement in performance the previous result will be retained.

11. Early exit for poorly performing students

A candidate shall be excluded from a course under the following conditions:

- (a) If he/she fails to pass any semester examination of the first year of the course in not more than six consecutive attempts from the date of joining the course, including the repeat examinations.
- (b) If he/she has five or more **XX** and/or **FR** grades after the first regular end-semester examination of the First year, due after taking the admission, and the corresponding repeat examination.

- (c) If he/she has not kept a term at the First year of the course without giving any reasonable justification for doing so.
- (d) If he/she does not keep two consecutive terms without giving any reasonable justification for doing so.
- (e) If a candidate fails to fulfill all the requirements of his/her respective degree within the prescribed period from the date of taking admission to the course, the candidate shall be excluded from the course.

12. Award of Class

The candidates who successfully complete all course/curriculum requirements of B.Tech Programs shall be awarded class as specified below.

- (a) Those who score CGPA of 8.25 and above shall be awarded First Class with Distinction.
- (b) Those who score CGPA of 6.50 and above but below 8.00 shall be awarded First Class.
- (c) Those who score CGPA below 6.50 shall be awarded Second Class.

Following will be the equivalent percentage of CGPA on Ten Point Scale:

The formula used to convert CGPA to percentage is:

Percentage of Marks = (CGPA – 0.5) x 10.

Cumulative Grade Point Average (CGPA)	Equivalent Percentage of Marks
6.00	55.0
6.25	57.5
6.50	60
7.25	67.5
7.75	72.5
8.25	77.5

13. Miscellaneous

- (a) Although CGPA will be given in the Semester grade report, the final degree certificate will not mention any Class whatsoever.
- (b) Notwithstanding anything said above if a course is revised /restructured then transient provisions applicable at the time of revision /restructuring shall be applicable.

R5. HOSTEL AND HOSTEL ADMINISTRATION (Under Section 99 of the Act)

Dr. Babasaheb Ambedkar Technological University (DBATU) offer 9 Diploma, 8 B Tech, 7 M Tech and 12 Ph.D. full time and part-time programs for the engineering in the academic disciplines of Chemical and Petrochemical Engineering, Civil Engineering, Computer Engineering and Information Technology, Electrical Engineering, Electronics and Telecommunication Engineering, Mechanical Engineering and in the academic disciplines of Chemistry, Mathematics, Physics and Humanities under the faculty of Engineering and Technology.

The following rules and regulations shall apply to all the students of Dr. Babasaheb Ambedkar Technological University hostels for maintaining discipline and good conduct within and outside the hostel as well as University premises.

1. GENERAL GUIDELINES

- 1.1. The University shall provide residential accommodation in its hostels at DBATU to the students admitted to regular courses, including Research project Staff/Assistant/Associate of the University subject to availability of hostel seats.
- 1.2. Every student must acquaint himself/herself with the rules and regulations of the hostel. He/she must obey these rules strictly. Ignorance of the rules will not be accepted as an excuse.
- 1.3. All the hostels shall remain closed during the period of semester break/vacation or at any time as notified by the University authority. During such break/vacation, boarders are to vacate the rooms of the hostel and should not keep any valuables/documents in the Hostels. The room key shall be deposited to the Warden/Assistant Rector/Rector.
- 1.4. However, M.Tech/Ph.D. students, students having special requirement of course assignment or project work and contract staff may be allowed to stay during vacation on recommendations of the concerned Head of the Department with due permission of the Warden/Rector/Registrar.
- 1.5. All boarders of the hostel shall be responsible for any loss/damage of the property of the hostel.
- 1.6. For any complaint, no boarder/student shall directly approach Hon. Vice-chancellor, the Registrar or any other higher official without approaching the Warden/Rector.
- 1.7. In the case of any outstanding dues/fines payable by any boarder/student at the end of each semester/year, the Warden may report it to the Controller of Examinations for holding of his/her result until the outstanding dues are paid by the student. If a student leaves the University without clearing all the hostel dues, the Warden may recover the outstanding dues from his/her hostel security and University security deposit. If any amount still remains unrecovered, notices to his/her guardian shall be sent who will finally be responsible to clear all outstanding dues.
- 1.8. All cases of illness shall be reported to the Warden/Assistant Rector/Rector immediately.
- 1.9. The Warden shall maintain permanent record (Stock book/consumables) of all articles of the hostel(s) supplied by the University.
- 1.10. The mess of the hostel shall be maintained by the Mess Committee. The Rector shall be the Chairman of the Mess Committee. The dining hall shall remain open as per the timetable decided by the Mess Committee. Members of the Mess Committee shall be nominated by the Rector from amongst the students of the hostel. The Mess Manager shall work as per the instructions given by the Mess Committee.

- 1.11. Electric bulbs/fluorescent tubes for all boarders shall be supplied by the University only at the time of fresh admission to the hostel. Replacements of the same shall be the responsibility of the boarders.
- 1.12. Boarders shall not use any electrical appliances such as electric heaters, electric stoves etc. in their rooms. However, boarders may use computers and laptops in their rooms.
- 1.13. Boarders are strictly prohibited to have in their possession at any time under any circumstances, dangerous materials, explosives, arms and weapons or any other items prohibited by law.
- 1.14. Boarders are expected to keep their rooms clean, tidy and maintain cleanliness. No rubbish should be thrown into the wash basin, drain, corridors or outside the rooms or in the surroundings. The bins kept for this purpose should be used.
- 1.15. Every boarder shall leave the hostel room clean at the time of vacating his/her hostel seat failing which the Rector shall not issue clearance certificate to the boarder(s).
- 1.16. Boarders shall not remove common room articles, dining hall utensils, furniture and other articles of the hostel from their normal place without the prior written permission of the hostel Warden/Rector.
- 1.17. Boarders on leaving their rooms shall always switch off the lights and fans. Boarders shall not leave water flowing from taps.
- 1.18. No boarder is allowed to shift from his/her allotted room to any other room without written permission from the Warden/Rector. The boarders are also not allowed to shift/exchange furniture and other assets from one room to another.
- 1.19. The student who have two wheelers shall get due sanction from the Campus Administrator by submitting a copy of registration papers and driving license. Vehicles with permission only will be permitted inside the campus. Four wheelers of the students are not allowed inside the Hostel/Campus.
- 1.20. Before vacating the Hostel the student should intimate the Rector and obtain "NO DUES CERTIFICATE" from the Rector.
- 1.21. The Warden/Rector will be free to inspect the hostel rooms as and when required, without any prior notice. The Warden also has the right to shift a student to any room without giving any reasons.
- 1.22. An undertaking (in writing) must be given by the student and his/her parent/ guardian as stipulated in the attached declaration form (Annexure- I).
- 1.23. In addition to these rules, boarders are also governed by the rules, orders, instructions etc. framed/issued by the competent authority from time to time.

2. ADMISSION TO HOSTELS

DBATU provides on-campus residential facility to its students enrolled in the programs of Bachelor of Technology and Diploma in Engineering. At present, the hostel facility is not available for Post-graduate students and Research Scholars. DBATU has two boys and three girls hostels with the intake capacity given below.

Sr. No.	Name of Hostel	Boys/Girls	Programs	Intake Capacity
1	Sahyagiri Hostel	Boys	First Year Degree and Diploma Students	180+80
2	Gagangiri Hostel	Boys	Second, Third and Final Year Degree and Diploma Students	450
3	Malaygiri Hostel	Girls	Third and Final Year Degree	300
4	Dhavalgiri Hostel	Girls	First Year and Second Year Degree	100+200

5	Alaknanda	Girls	All Diploma Students	100+90+80
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Hostel Room: University accommodates 2-3 students per room in all the hostels. The rooms are furnished with cots, in-wall storage units, and essential facilities such as electric fans and tube

3. HOSTEL ADMISSION POLICY

- a) Admission to hostel is strictly done on merit basis of and as per the Government of Maharashtra rules and regulation for reservations.
- b) Merit list is prepared on the academic performance till the previous semester examination
- c) Students applying for the hostel admission should have attended more than 75% theory and practical classes in the previous semester.
- d) The J&K migrants(J1,J2 & J3 Type)/GOI nominees/differently able students will be given priority in hostel admission.
- e) From Second year onwards admission, other than Maharashtra (OMS) students will be admitted in the hostels in OPEN category and as per their merit.
- f) The admission seats will be allotted branch wise. The number of seats allotted to each branch and category will be according to the distribution of seats as per reservation policy.
- g) The students residing within 50 KM periphery of DBATU are not eligible for hostel admission. However, admission may be given to such students provided the seats are available after meeting the demand from other students.
- h) The student shall pay hostel fees along with mess deposit (decided by the University authority) for one year in advance at the time of admission.
- i) Strict silence shall be observed in hostel. Care should be taken at all times to ensure that music/loud talking is NOT audible outside the room. Any manner of festivities and noise making/celebrations will not be entertained, which may cause disturbance to other inmates in the hostel premises.

4. FUNCTIONING OF HOSTEL MESS

- (a) All the inmates of the hostel will compulsorily become a permanent member of the mess.
- (b) Each hostel mess is run as a co-operative mess by the students (inmates of the hostel) under the supervision of Warden and Rectors.
- (c) Each hostel mess will have a mess committee consisting of five inmates of the hostel to be nominated by the Rector. Among them, there will be a Mess Secretary. The term of this committee will be for a period of six month/one year.
- (d) The bulk purchase for the mess items such as grossary, vegetables and bakery items, etc. will be done through Central Hostel Purchase Committee (CHPC) to maintain the uniform quality in all the hostels at reasonable cost.
- (e) The CHPC will be constituted for a period of one academic year by the University Administration and will have representation of all the hostels (Mess Secretary and Rectors).
- (f) The above items will be purchased on rate contract basis either by Tender or local market survey by the central hostel purchase committee with the following terms and conditions:
 - i. Agreement has to be signed by both the parties clearly mentioning the rate and quality of the material. Sample of the quality of material will be available in all the hostels.

- ii. The material will be verified and accepted by the mess committee members, mess managers, warden, Assistant Rector and Rector of the respective hostel.
 - iii. The quality of the items should be maintained. In case of any deviation from the quality, the University reserves the right to cancel the agreement of purchase at any time.
 - iv. Payment of items will be made by the respective hostel mess committee, at the end of every month.
 - v. The purchase of all other items will be done by at least two members of the mess committee. All the vouchers will be signed by the persons who did the purchase on that day.
- (g) The money transactions from the hostel mess account would be done by the Mess secretary through cheque signed jointly by the Mess Secretary and Rector.
 - (h) The mess committee will also prepare the weekly menu in advance and display it on the notice board.
 - (i) The monthly mess bill will be prepared by the Mess Secretary and Hostel Clerk on the basis of vouchers for the month and will be jointly signed by the Mess Secretary and Rector.
 - (j) Expenses made towards day-to-day functioning of mess (e.g. transportation for procurement, survey/purchase of items, cleanliness) may be incorporated in the mess expenses. Telephone/conveyance bills towards such expenses should be duly maintained and verified for the reimbursements.
 - (k) Approval for making such provisions of reimbursement of genuine expenses made by Mess Secretary, mess supervisor or any hostel committee member is under the guidance and supervision of Rector.

5 MESS RULES

- 5.1 Students should sign the mess joining register kept in the mess at the time of their joining the mess.
- 5.2 Students should sign the mess leaving register and kept in the mess whenever they leave the mess. Otherwise they will be deemed to be present and charged accordingly.
- 5.3 Students are not permitted to dine in the mess without signing the Joining Register or after signing the leaving register.
- 5.4 The quantity of food will be unlimited except in the case of special items.
- 5.5 Non-vegetarian items will be served as extra on specified days of the week.
- 5.6 Students proceeding on medical Leave from the campus should produce the Medical Certificate. In case of sudden illness, information on leaving the mess should be made available to the Hostel Office immediately.
- 5.7 Students other than the Mess Committee Members are not permitted to enter the kitchen or store room of the mess on any account.
- 5.8 Students are not permitted to cook any food on their own accord in the mess or in their rooms.
- 5.9 Students on no account whatsoever will be permitted to take food outside the mess. Nor can take mess utensils such as plate, spoon, tumblers, etc, to their rooms in any case.
- 5.10 No food will be served in the rooms of the hostel for any student unless a certificate is produced from the Institute Medical Officer/Rector to the effect that the students' condition requires the food to be served in their rooms.
- 5.11 No diner shall waste food. Paying mess bill does not entitle a diner to waste food.

- 5.12 Assist in maintaining the mess and surroundings neat and clean. No notices shall be pasted on walls. Notices put up on the notice boards should not be removed by the diners.
- 5.13 All diners shall interact with the mess staff in the dining hall in a courteous manner. After eating food, diners shall leave the cup, plate, waste food etc. in the designated bins.
- 5.14 If any diner is medically ill and requires a special diet (Ex. Oil-less food) he/she can request the mess supervisor to arrange for the same at the mess.
- 5.15 The guest charges for lodging and boarding will be as notified by mess committee members time to time.
- 5.16 Before ordering any mess item (Grossary, Vegetable, bakery items, etc) mess committee and mess manager must consult each other and maintain the stock register. The stock register should be verified by Rector.

6 CODE OF CONDUCT

- 6.1 All residents are required to maintain standards of behavior expected of students of a University. They are expected to behave courteously and fairly with every one inside and outside the DBATU campus.
- 6.2 All residents are required to always carry their valid Identity Card issued by the University/Hostel.
- 6.3 The rooms, common areas and surroundings of the hostel should be kept clean and hygienic. Notices shall not be pasted on walls and walls shall not be scribbled on.
- 6.4 Rooms are allotted to each student on his/her personal responsibility. He/she should ensure the upkeep of his/her room, hostel and its environment.
- 6.5 Students should bring to the notice of the caretaker/Warden regarding any pending maintenance work (Civil, Carpentry, Electrical, Sanitation) to be carried out in rooms, corridors, toilets or other areas in hostel premises in writing.
- 6.6 Students should co-operate in carrying out maintenance work and vacate their rooms completely when the Hostel administration requires the rooms for this purpose. If any maintenance work is to be carried out when the room is under occupation, it is the occupant's responsibility to make the room available for the maintenance work.
- 6.7 The students should not carry/watch/unauthorized/illegal/objectionable movies in their rooms. Any violation will be dealt severely.
- 6.8 The resident of a room is responsible for any damage to the property in the room during his/her occupancy of that room and will be required to replace/repair at their own cost the damage, if any.
- 6.9 In case of damage to or loss of hostel property the cost will be recovered from the students responsible for such damage or loss, if identified, or from all the students of the wing/hostel, as decided by the Warden/Rector/Registrar.
- 6.10 The resident shall not move any furniture from its proper allotted place and also not damage them in anyway. If there are any additional items other than the above belonging to the hostel in a room, the occupant of the room shall hand over them to the Warden, failing which he/she will be charged a penal rent as decided by the Rector.
- 6.11 The resident shall not remove any fittings from any other room or common area and get them fitted in his/her room.
- 6.12 Ragging of students admitted to the Institute is totally banned. Any violation of this by the senior students will be dealt with very severely as per the Institute norms and guidelines issued from time to time by the competent authorities.

- 6.13 Fresher should report incidents of ragging immediately. Those who do not do so even when being witnesses or victims, will be considered to be part of this practice, and will also be punished accordingly.
- 6.14 When the persons committing or abetting the crime of ragging are not identified, collective punishment on suspected group could be resorted to as a possible deterrent measure, as it would ensure community pressure on the potential raggers not to indulge in ragging.
- 6.15 All the hostellers, hostellers and day scholars, are required to sign an Anti-Ragging Undertaking form as per UGC guidelines and submit to Rector.
- 6.16 In the Hostel and University premises following are strictly prohibited: Smoking, Consumption of alcoholic drinks/drugs, Gambling, Intimidation or violence, willful damage to property, entering the hostel premises in intoxicated state, moving in the colony sector or near the girls hostel premises after 9.00 pm, shouting and using abusive language in their own hostel or in other hostel premises and campus, employing unauthorized persons for personal work such as washing clothes, etc., cooking in room. If found, heavily punished by the competent authority (Rector/Registrar).
- 6.17 Residents should not participate in any anti-national, antisocial or undesirable activity in or outside the University campus.
- 6.18 The use of electrical appliances such as immersion heaters, electric stove/heaters are not allowed in the rooms. Such appliances, if found will be confiscated and a fine will also be imposed.
- 6.19 The use of audio systems which may cause inconvenience to other occupants is not allowed.
- 6.20 When the students go out of their room, they should switch off all the electrical/electronic appliances and keep it locked. Violation will attract suitable penalty and punishment as decided by the authorities (Rector/Registrar).
- 6.21 In case, any student has to stay out of hostel for a day or more for any reason, he/she has to inform the Rector in writing and take his/her permission.
- 6.22 All hostel students must make entry in the in-out register available with security guard, if willing leave or enters into the hostel after 7pm/8.30 pm or any other time decided by the authorities (Warden/Gate keeper/Rector).
- 6.23 First year students must take permission from Warden/Rector for going out from the hostel for any reason and must make entry in the in-out register available with security guards at the hostel gate.
- 6.24 All residents of girls' hostels must be back in the hostel by 6.30 pm or as decided by the Rector. If a girl student needs to stay out of the hostel after 6:30 pm due to any reason, she has to apply for and take prior written permission from the Rector. Violation of this rule may lead to disciplinary action including expulsion from the hostel.
- 6.25 All residents of girls' hostels must take the prior written permission from the Rector for attending extra lectures/practical/ Preparatory Leave/any activity on non working days (Saturday/Sunday).

7 GUESTS AND VISITORS

- 7.1 Subject to availability of proper accommodation facility, the guest of a resident may be permitted, with the prior written approval by the Rector to stay in hostel on payment of the necessary charges, as fixed by the Hostel administration from time to time.

- 7.2 No overnight guests are allowed in a student's room without permission of the Rector. In boys' hostels, the parents of students and other male guests may visit the student in his room after due permission from Warden/Rector and after making proper entry at the hostel gate.
- 7.3 Male students/visitors are not allowed inside the girls' hostel. Female visitors are not allowed in boys' hostels. However, lady family members may be allowed to visit a student in the visitors' room in the hostel between 9.00 a.m. to 7.00 p.m. with prior permission from the Rector.
- 7.4 Violation of any of the above rules regarding stay in the hostels will lead to disciplinary action including expulsion from the hostel.

8 RESPONSIBILITIES OF RESIDENTS/STUDENTS

- 8.1 General damage to the hostel property will be the collective responsibility of all the residents and they will be required to make good such damage, if the students who caused the damage could not be identified.
- 8.2 Residents should not indulge in practices/activities, which may endanger their own personal safety as well as that of others.
- 8.3 Residents will be personally responsible for the safety of their belongings.
- 8.4 Residents are bound to report to the hostel authorities in case they notice any unwanted incident or undesirable activity going on in the hostel or on the University campus.
- 8.5 Residents are required to park the vehicles only in the space provided for them in an orderly manner. No vehicles should be parked near the entrance or in the corridors. Residents are advised to use bicycles and avoid using motorcycles/scooters/four wheelers (Un-registered with University) in the campus.
- 8.6 Students should not arrange any functions or meetings within the hostel or outside or within the University campus without specific permission of the Warden/Rector/Registrar. Meetings for routine hostel affairs (management of mess, organizing sports, co-curricular and extra-curricular activities etc.) have to be in the notice of Warden and with their consent.
- 8.7 Students should not arrange for any picnic outside the campus without specific permission of the Rector.
- 8.8 Residents are required to be conscious of the environment in which they live by keeping it clean, healthy and presentable.
- 8.9 The residents of the hostel are responsible for the safe keeping of their personal belongings. They are advised to keep under lock (preferably a branded one) all valuable items such as Laptop, Mobile Phone, etc. and lock the room even when they are out for a short period.
- 8.10 Any case of theft should be reported promptly to the Security Officer through hostel administration.
- 8.11 If students create law and order problems outside the campus, they are answerable to the police on their own. In such cases, they will also be answerable to University administration as per the University norms.
- 8.12 Do not go out in large groups which are difficult to control. If you get involved in unpleasant situations, you are not the only one to be affected. You end up creating a bad impression of our University too.
- 8.13 Students shall not indulge in any political or communal activity which is detrimental to the law and order and/or against the Government. Students shall not carry on any

propaganda or publicity of any nature whatsoever in respect of anything or any matter including political or communal matters.

- 8.14 University authorities will try to protect you as long as you are on the right side of the law. Do not overstep your limits. Help us to help you.

9 DISCIPLINARY MEASURES

- 9.1 Any student who is found to be indulging in undesirable activities such as ragging, physical assault, damage to property, causing inconvenience to other inmates, non-compliance of any of the conduct rules, or violation of any other rule defined in this manual will be liable to the following punishments:
- (a) Expulsion from the hostel
 - (b) A record of his/her misconduct will be made in his/her personal file/TC
 - (c) The cost of damage will be fully recovered from him/her together with penalty
 - (d) He/she will also be fined commensurate with the offence committed
 - (e) The privilege of appearing for campus interviews will be denied, when he/she reaches the final year
 - (f) No recommendations will be given to him/her for studies abroad
 - (g) Rustication from the University.
 - (h) Any other punishment decided by University administration
- 9.2 Availing room service or taking food or mess utensils to the room will attract a fine and disciplinary action by hostel administration.
- 9.3 Any breach of the conduct rules or any act of indiscipline will invite an enquiry that will be conducted by the University Administration. If the student is found guilty, then the Hostel Administration will take disciplinary action that it deems fit. Depending on the case, the administration reserves the right to take direct disciplinary action, amounting to even expulsion at short notice from the hostel.

10 FINE FUNDS

- 10.1 Guest charge will be utilized for the improvement in the mess services as would be decided by the mess committee and hostel administration.
- 10.2 Hostel fine fund will be utilized for hostel upkeep as would be decided by the University administration.
- 10.3 A cash fine may be levied by the warden/rector of the hostel as per specified in the table. However, cash fine must be treated as the first warning against such indiscipline activities/acts in the hostel. Repartition of such activities/acts may lead to the expulsion of the hostelites.

Sr.	Indiscipline activity	Cash fine in Rs.
1.	Use of heater/Iron in the room	Rs.200/-
2.	Unauthorized absence from the hostel	Rs.300/-
3.	Damage of hostel/mess property	Rs.300+ actual cost of damage
4.	Shouting or disobedience in the passage or wings of the hostel	Rs.300/-
5.	Wastage of food in the mess	Rs.50/-
6.	Night out from the hostel without	Rs.300/-

	permission	
7.	Change in allocated rooms without permission	Rs.300/-
8.	Involvement/ participation/ encouragement in/of political activities in the hostel	Rs.300/-
9.	Pornographic content access using official internet facility	Rs.300/-
10.	Unauthorized access/entry in the restricted area of hostel/mess	Rs.300/-
11.	Fighting/quarrels or such similar acts of physical injury	Rs.300/-



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

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

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 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 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.



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 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.

Institutional Distinctiveness:

- Dr. Babasaheb Ambedkar, the “Greatest Indian” was an eminent researcher and social reformer. He devoted his life to studying various branches of knowledge and implemented for making a proud and better India. The Vision, Mission and Objectives of the University, Lonere are rightly embodied with the missionary work of Dr. Ambedkar. The research scholars, students, faculty and staff follow the principles laid down by Dr. Ambedkar through his writings, speeches and Indian Constitution.
- Presently, 240+ institutes are affiliated to the University and the total student strength is more than one lakh.
- The sprawling 468 acres campus of this University provides a sanctum seat of learning across the state.
- Major and Minor Degree
- B Tech Honors Degree
- 6 Month Industrial Internship to B Tech Final Year Student
- For Each Semester 20 % Online courses through platforms like NPTEL Swayam etc.
- Strong Alumina Network across the globe.
- Innovation & Incubation Centre
- The DBATU Forum of Innovation Incubation and Enterprise Incorporated as Section 8 company (CIN NoU85300MH2019NPL332513).
- A grant of Rs. 5 Cr is sanctioned by GoM for 5 Years.
- Adapted NEP-2020 to encourage multidisciplinary research.
- State-of-the art laboratories, Central Computer Centre, Central Fabrication Facility like fabrication of PCB, PCM, 3-D objects and Antenna, etc.

Institutional Values and Best Practices:

Dr. Babasaheb Ambedkar, the “Greatest Indian” was the eminent researcher and social reformer. He devoted his life for studying various branches of knowledge and implemented for making a proud and better India. The Vision, Mission, and Objectives of the University, Lonere are rightly embodied with the missionary work of Dr. Ambedkar. The research scholars, students, faculty, and staff follow the principles laid down by Dr. Ambedkar through his writings, speeches, and Indian Constitution. It’s the privilege of the University to have Dr. Ambedkar's name. Dr. Babasaheb Ambedkar Technological University took many measures for the promotion of gender equity by arranging functions and thought-provoking speeches. University has a women’s grievance cell to safeguard and promote the well-being of all women employees and girl students of the organization. The University promotes the use of renewable energy sources and started implementing Solar energy and the use of LED bulbs/ Power-efficient equipment in campus. University continuously took efforts for water conservation and maintaining a clean and green campus. University took efforts in providing an inclusive environment by arranging various programs for students by NCC and NSS units. To sensitize students and employees of the University to constitutional obligations: values, rights, duties and responsibilities of citizens, University conducts programs like the constitution day celebration, Dr. Ambedkar Jayanti celebration, 18-hour study program. Thus various best practices have been implemented to embody the constitutional principles in the minds of the students and employees. We at DBATU continuously working to maintain the image of the University as “Seat of Learning in Green Mountains towards Constitutionally responsible citizen of India.”