

**RULES AND REGULATIONS
REGARDING CURRICULUM AS PER CHOICE BASED CREDIT SYSTEM
FOR
UNDER GRADUATE PROGRAMME
Bachelor of Technology(Full Time and Part Time)**

w.e.f. 2021-2022 (Full time) & 2022-2023 Part-Time



**GOVERNMENT COLLEGE OF ENGINEERING
AURANGABAD**

(An Autonomous Institute of Govt. of Maharashtra)
Station Road, Osmanpura, Aurangabad- 431005 (M.S.) (0240)
2366101, 2366111, Fax: (0240) 2332835

**Approved in XXIVth Academic
Council, Dated 23/07/2022**

A handwritten signature in blue ink, likely of an official from the Academic Council.

CONTENTS

1. Introduction
2. Definitions
3. Academic Calendar
4. Registration
5. Credit & Evaluation System
6. ADD / DROP
7. Attendance requirements
8. Absence during the Semester
9. Credit Transfer
10. Withdrawal from the Programme
11. Conduct and Discipline
12. Graduation Requirements & Convocation
13. Committees

Approved in XXIVth Academic
Council, Dated 23/07/2022



The General Regulations are for the students taking admission for the first year in engineering from year 2021-2022 (Full time) &2022-2023Part-Time. Most of the rules are common for Full time &Part-timedegrees unless specified separately.

1. INTRODUCTION:

- 1.0 The General Regulations that are common to all Degree Programmes(FT/PT) of Government Engineering College Aurangabad, are presented here. Specific aspects of the Regulations pertaining to a particular Degree Programme are given separately along with the corresponding Curriculum.
- 1.1 The provisions contained in this set of Regulations govern the policies and procedures, on the admission of students, imparting instructions of courses, conducting of the examinations, and evaluation and certification of students' performance leading to the said Degree Program(s).
- 1.2 This set of Regulations, shall be binding on all students undergoing the said Degree Program(s) under CBCS.
- 1.3 This set of Regulations may evolve and get revised/refined or updated or amended or modified or changed through appropriate approvals from the Academic Council, from time to time, and shall be binding on all parties concerned, including the Students, Faculty, Staff, Departments, Institute Authorities.
- 1.4 In order to *guarantee fairness and justice* to all the parties concerned, in view of the periodic evolutionary refinements, any specific issues or matters of concern shall be addressed to the Academic Council, as and when found necessary through appropriate authorities.
- 1.5 The Academic Council may consider any issues or matters of concern relating to any or all the Academic activities of the Institute, for appropriate action, irrespective of whether a reference is made (or the nature and extent of any reference if so present) here in this set of Regulations or otherwise.
- 1.6 All disputes arising from this set of Regulations must be addressed to the Academic Council. The decision of the Academic Council is final and binding on all parties concerned. Further, any legal disputes arising from this set of Regulations shall be limited to the legal jurisdiction Aurangabad and not that of any other parties.

Approved in XXIVth Academic
Council, Dated 23/07/2022



2. **DEFINITIONS:** Unless the context otherwise requires –

- **“Academic Council”** means, Academic Council of the Institute
- **“BOM”** means, the Board of Management (BOM) of the Institute
- **“BOS”** means, the Board of Studies of the department
- **“Course”** means, a specific *subject* usually identified by its *course-code* and *course-title*, with a specified *syllabus/course* -description, a set of *references*, taught by some *teacher(s)/course-Co-ordinator(s)* to a specific *class* (group of students) during a specific *academic-session/semester*
- **“Course coordinator”** means, a teacher who teaches and/or coordinates various activities of a Course
- **“Curriculum”** includes the set of Academic Regulations, CourseStructure, and Course-Contents
- **“CET”** means, Common Entrance Test conducted by competent Authority
- **“Institute”/“GEC”** means, Government College of Engineering, Aurangabad
- **“Dean (Acad)”** means, the Dean (Academics)
- **“Dean (SA)”** means, the Dean (Student Activities)
- **Dean (R&D)”** means, the Dean (Research & Development)
- **“Faculty Advisor”** means the Faculty Advisor or the Panel of Faculty Advisors, in a Parent Department, for a group (admission-batch) of students
- **“GATE”** means, Graduate Aptitude Test in Engineering
- **“Principal”** means, the Head of the Institute.
- **“HOD”** means, the Head of the Department.
- **“ProgrammeCoordinator”** means, a faculty in charge of an academic programme,
- **“Parent Department”** means, the department that offers the degreeprogramme that a student undergoes
- **“FT”** means, Full Time
- **“PT”** means, Part-Time
- **“ISE”** means In semester Evaluation
- **“ESE”** means End Semester Examination

ACADEMIC CALENDAR:

- 2.1 The normal duration of the course leading to B. TECH. degree will be *EIGHT* semesters for Full time & *NINE* Semesters part-time
- 2.2 Each academic year shall be divided into 2 semesters, each of a minimum 90 working days duration (including Examinations) For Full time degree & 3 semesters, each of minimum 90 working days duration (including Examinations) For Part Time degree.
- 2.3 The schedule of academic activities for a Semester, including the dates of registration, In-semester evaluations, end-semester examination, re-

examination, inter-semester vacation, etc. shall be referred to as the Academic Calendar of the Semester, which shall be prepared by the Dean (Academic), approved by the Academic Council, and announced at least TWO weeks before the Closing Date of the previous Semester.

- 2.4 The Academic Calendar must be adhered to, and all other activities including co-curricular and/or extra-curricular activities must be scheduled so as not to interfere with the Curricular Activities as stipulated in the Academic Calendar.
- 2.5 Under any circumstances when any of the Teaching Days gets declared as a Holiday or otherwise when the classes get suspended, irrespective of whatsoever be the reasons, appropriate makeup for such loss shall be made by Program Coordinator having the class/lab/teaching sessions conducted on a suitable day by following the particular Class Time Table of that Teaching Day which was so lost.

3. **REGISTRATION:**

- 3.1 Every Student after consulting his/her Faculty-Advisor is required to register for the approved courses of Parent Department before commencement of each semester on the days fixed for such registration and notified in the academic calendar. Programme coordinator will monitor and appoint Departmental Committees in order to properly facilitate course registration. All students must personally be present on these dates. Minimum twenty (20) students are required for starting an elective course in a UG programme. Maximum seventy (70) students can register for any elective course per division.
- 3.2 Minimum ten(10) students are required for starting an elective course in a Part Time UG Programme. Maximum thirty(30) students can register for any elective course in a Part Time UG Programme.
- 3.3 Lower and Upper Limits for Course Credits Registered in a Semester, by a Full-time Student & Part Time Student of a Degree Programme:
A full time student & part time student of a particular degree programme shall register for the appropriate number of course credits in each semester/session, that is within the minimum and maximum limits specific to that degree programme as stipulated in the specific Regulations pertaining to that degree programme as prescribed in Annexure A.
- 3.4 Mandatory Pre-Registration for higher semesters:
In order to facilitate proper planning of the academic activities of a semester, it is essential for the student to *declare their intent to register* for an elective course well in advance, before the actual start of the academic session, through the process of Pre-Registration, which is mandatory for all students of second or higher semesters. The span of pre-registration shall be declared on website and academic calendar.

- 3.5 All students (other than the freshly admitted students) intending to register for the next higher semester are required to have completed the *Mandatory Pre-Registration* of elective courses, at least TWO weeks before the last day of instruction specified in the academic calendar of the current semester. To facilitate this Pre-registration, all teaching departments shall announce the list of courses to be offered for the next higher semester, at least FOUR weeks before the Last Day of instruction specified in the academic calendar of the current semester.
- 3.6 Under Graduate students may be permitted to register for a few selected Post Graduate courses, in exceptionally rare circumstances
- 3.7 *Course Pre-Requisites:*
In order for a student to register for some specific courses, it may be required either to have exposure/registered, or have completed satisfactorily, or have prior *earned credits* in prerequisite courses as prescribed by the respective board of studies.
- 3.8 Students who do not register on the day announced for the purpose, may be permitted *LATE REGISTRATION* up to the notified day in academic calendar on payment of late fee.
- 3.9 *REGISTRATION IN ABSENTIA* will be allowed only in exceptional cases through the authorized representatives of the student with the approval of committee formed by Principal and programme coordinators.
- 3.10 A student will be permitted to register in the next semester only if he/she fulfills the following conditions:
- (a) satisfies all the Academic Requirements to continue with the programme of Studies
 - (b) cleared all Institute, Hostel and Library dues and fines (if any) of the previous semesters;
 - (c) Paid all required advance payments of the Institute and hostel for the current semester;
 - (d) Not been debarred from registering on any specific ground by the Institute.

4. Credit & Evaluation system

The Grading System

- 4.1 The grading system for Undergraduate Programmes as proposed by Dean (Academics), recommended by examination committee & approved by the Academic council shall be followed for declaration of results. For every course taken by a student, he/she is assigned a grade based on his/her combined performance in all the heads of assessments. The grade indicates a qualitative assessment of the student's performance and is associated with equivalent number called a grade point.

4.2 The academic performance shall be graded on a ten grade point scale following guidelines given below for undergraduate classes.

4.2.1 The letter Grades (up to D only) awarded to a student in all the courses shall be converted into a semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).

4.3 **RELATIVE GRADE SYSTEM FOR UG PROGRAM**

Award of Grades-

4.3.1 Grade A++ absolute grade to be awarded to 10 % or less number of students securing more than 80 % marks.

4.3.2 In the case of students appearing for Re-examination the grade shall not be higher than A+ in that particular course.

4.3.3 Grade D absolute grade to be awarded to student who fail to pass the subject securing less than 40 % marks or student remaining **ABSENT** in a course of End Semester Examination/ Re-Examination.

4.3.4 The intermediate grade shall be divided on equal scale between student securing A++ and C grade.

4.3.5 There shall be letter grades with associated grade points as given below:

Relative Range of Marks	Grade	Grade Point
$M > k_1$	A++	10.0
$k_1 > M \geq k_2$	A+	9.0
$k_2 > M \geq k_3$	A	8.0
$k_3 > M \geq k_4$	B+	7.0
$k_4 > M \geq k_5$	B	6.0
$k_5 > M \geq k_6$	C+	5.0
$k_6 > M \geq k_7$	C	4.0
$M < k_7$	D	0
Detained	D1	0
Drop	D2	0
Withdrawn	D3	0

Approved in XXIVth Academic
Council, Dated 23/07/2022

Where,

M- marks obtained out of 100, k_1 = Minimum marks of (A++-1) or maximum marks secured if no student is awarded A++

$k_7=40$; $C = \text{abs}(k_1 - k_7)/6$; $k_2 = (k_1 - C)$; $k_3 = k_2 - C$; $k_4 = k_3 - C$; $k_5 = k_4 - C$; $k_6 = k_5 - C$

4.3.6 The SGPA and CGPA shall be calculated as per the procedure followed based on credits. The equivalent percentage from CGPA shall be calculated as $(\text{CGPA}) \times 10$.

4.3.7 Class is awarded on the basis of CGPA First Division with Distinction = $\text{CGPA} \geq 7.00$

First Division $= 7.00 > \text{CGPA} \geq 6.00$

Second Division $= 6.00 > \text{CGPA} \geq 5.00$

Pass Class $= \text{CGPA} < 5.00$

Refer Annexure A

5. ADD / DROP

5.1 **ADD-option:**

A student has the option to ADD courses for registration till the date specified for late registration in the Academic Calendar.

5.2 **DROP-option:**

On recommendation of the Teaching Department as well as the Parent Department, a student has the option to DROP courses from registration *until 2 weeks after the commencement of the classes in the semester*, as indicated in the Academic Calendar.

6. ATTENDANCE REQUIREMENTS:

6.1 All students must attend every lecture, tutorial and practical classes in anOffline/Online mode as the case may be.

6.2 To account for approved leave of absence (e.g. representing the Institute in sports, games or athletics; placement activities; NCC/NSS activities; etc.) and/or any other such contingencies like medical emergencies, etc., the attendance requirement shall be a *minimum of 75%* of the classes actually conducted.

6.3 A student with less than 75% attendance and/or unsatisfactory participation/performance in ISE evaluation in a course during a semester, in all the academic activities will not be permitted to appear in the ESE of the course in which the deficiency exists, irrespective of his academic performance, and irrespective of nature of his absence. The student will have to re-register in the same course as and when

offered in the institute or he/she may have a choice to register in an equivalent course as approved by the respective board of studies.

- 6.4 The course coordinator shall communicate periodically the attendance of the concerned students and shall publish list of provisionally detained student with the reason thereof atleast one week before the last day of instruction in the current semester.
- 6.5 Students who do not satisfy the criteria for final grant of term shall be finally detained by the course coordinator on the last day of instruction and shall be communicated in writing to the concerned students, program coordinator and controller of examination
- 6.6 The attendance records are to be maintained by the course coordinator and he/she shall show it to the student, if and when required and to be published on website.

7. **ABSENCE DURING THE SEMESTER:**

7.1 ***Leave of Absence:***

- (a) The leave of absence for the student for valid and genuine reasons shall be required to be approved by faculty advisor and the programme coordinator at appropriate time with supporting documents.
- (b) The faculty advisor / programme coordinator may on receipt of such request in writing shall grant leave under genuine circumstances or shall reject if found not satisfactory.

7.2 ***Absence during In-Semester Evaluations:***

All ***In-Semester Evaluations*** are mandatory. Absence in the same will lead to loss of those marks.

8. **TRANSFER OF CREDITS**

The courses for which credit obtained elsewhere, in Indian or foreign University/Institutions/ Colleges by students during their study period at GEC may count towards the credit requirements for the award of degree. The credits transferred will reduce the number of courses to be registered by the student at GEC. The guidelines for such transfer of credits are as follows:

- a) Undergraduate students can register courses approved by the concerned programme coordinator, in recognized Institutions of national importance, IITs, NITs, universities, research organization, TEQIP assisted autonomous institutes or credit courses conducted under GIAN.



Approved in XXIVth Academic
Council, Dated 23/07/2022

- b) Courses which are not covered in (a) may be considered with approval of academic council.
- c) Students can earn external credits from IISc/IITs/NITs/IIMs and other Indian or foreign Universities/Institutes /Colleges with which GEC has prior approval of transfer of credits by students.
- d) A student must provide all details including the approval or acceptance letter from the other side. These details will be evaluated by the concerned departmental academic bodies (BoS) before giving approval. These academic bodies will then decide the number of equivalent credits the student will get for such course(s) in GEC.
- e) The maximum number of credits that can be transferred by a student shall be normally limited to 15.
- f) A student has to get minimum passing grades/ marks for such courses for which the credits transfer are to be made.
- g) Credits transfers availed by a student shall be properly recorded on academic record(s) of the student.

9. **WITHDRAWAL FROM THE PROGRAMME:**

9.1 ***Temporary Withdrawal:***

- a) A student who has been admitted to a degree programme of the Institute may be permitted to withdraw temporarily, for a period of onesemester or more, on the grounds of prolonged illness or grave calamity in the family, etc., provided:
 - (i) He/She applies to the Institute stating fully the reasons for withdrawal together with supporting documents and endorsement from his parent/guardian;
 - (ii) There are no outstanding dues with the Departments / Institute / Hostels / Library / etc.;
 - (iii) Scholarship holders are bound by the appropriate Rules applicable to them.
 - (iv) The decision of the Principal of the Institute regarding withdrawal of a student is final and binding.
- b) Normally, a student will be permitted only one such temporarywithdrawal during his tenure as a student and this withdrawalwill not be counted for computing the duration of study.

9.2 ***Permanent Withdrawal:***

Any student who withdraws admission before the closing date of admission for the Academic Session is eligible for the refund of theall the fees and deposits, after a deduction of a processingfee. For the first year admitted student's permanent withdrawal is definedasper the norms of admission by Government of Maharashtra.Oncethe admission

for the year is closed, the following conditions govern withdrawal of admissions:

- (a) A student who wants to leave the Institute, will be permitted to do so (and take Transfer Certificate from the Institute, if needed), only after clearing all the dues, if any. Also, all the fees and charges already paid will not be refunded on any account.
- (b) Those Students who have received any scholarship, stipend or other forms of assistance from the Institute shall repay all such.
- (c) The decision of the Principal of the Institute regarding all aspects of withdrawal of a student shall be final and binding.

10. CONDUCT AND DISCIPLINE:

10.1 Students shall conduct themselves within and outside the premises of the Institute in a manner befitting the students of a reputed Institution.

10.2 As per the order of Honorable Supreme Court of India, ragging in any form is considered as a criminal offence and is banned. Any form of ragging will be severely dealt with.

10.3 The following acts of omission and/or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures:

- (a) Ragging.
- (b) Lack of courtesy and decorum; indecent behavior anywhere within or outside the campus.
- (c) Willful damage or stealthy removal of any property/belongings of the Institute/Hostel or of fellow students/citizens.
- (d) Possession, consumption or distribution of alcoholic drinks or any kind of narcotics or hallucinogenic drugs.
- (e) Mutilation or unauthorized possession of library books.
- (f) Noisy and unseemly behavior, disturbing studies of fellow students.
- (g) Hacking in computer systems (such as entering into other person's area without prior permission, manipulation and /or damage of computer hardware and software or any other cyber crime etc.)

(h) Plagiarism of any nature.

- (i) Any other act of gross indiscipline as decided by the Academic Council from time to time.

Commensurate with the gravity of offense, the punishment may be: reprimand, fine, expulsion from the hostel, debarring from an examination, disallowing the use of certain facilities of the Institute, rustication for a specified period or even outright expulsion from the Institute, or even handing over the case to appropriate law enforcement authorities or the judiciary, as required by the circumstances.

10.4 For an offence committed in (i) a hostel (ii) a department or in a class room and (iii) elsewhere, the Chief Warden, the Head of the Department

Approved in XXIVth Academic
Council, Dated 23/07/2022

and the Dean (Students Activities), respectively, shall have the authority to reprimand or impose fine.

- 10.5 Cases of adoption of unfair means and/or any malpractice in an examination shall be reported to the Controller of Examination for taking appropriate action.
- 10.6 All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the Principal.
- 10.7 The Institute Level Standing Disciplinary Action Committee constituted by the Principal, shall be the authority to investigate the details of the offence, and recommend disciplinary action based on the nature and extent of the offence committed.

11. GRADUATION REQUIREMENTS AND CONVOCATION:

- 11.1 A student shall be declared to be eligible for the award of the degree if he/she has:
 - (a) Fulfilled Degree Requirements
 - (b) No dues to the Institute, Departments, Hostels, Library, No disciplinary action pending against him/her.

11.2 **Convocation:**

It is suggested that Provisional Degree/Degree will be awarded in person for the students who have graduated during the preceding academic year. Provisional Degree will be awarded in absentia to such students who are unable to attend the Convocation. Students are required to apply for the Convocation along with the prescribed fee, after having satisfactorily completed all the degree requirements within the specified date in order to arrange for the award of the degree during convocation.

12. COMMITTEES / FUNCTIONARIES:

The following committees shall be constituted common for the various degree Programs:

12.1 **Departmental Academic Appeals Board (DAAB):**

Constitution:

- (a) Programme Coordinator of the teaching/parent Department ...Chairman
- (b) Three faculty members ...Members
- (c) One faculty from outside the Department nominated by Principal ...Member
- (d) Faculty Advisor(s) of the Class from where the Appeal originates ...Member(s)

Note:

- There shall be one DAAB for every department.
- The Chairman may co-opt and/or invite more members.
- Depending on the prevailing circumstances, a Senior faculty of the Department, nominated by the Principal, shall act as Chair person instead of Head of the Department.
- If the concerned Co-ordinator is a member of DAAB then he/she shall keep himself out of the Board during deliberations.

Functions:

- i. To receive grievance/ complaints in writing from the students regarding anomaly in the award of grades due to bias, victimization, erratic evaluation, etc. and redress the complaints.
- ii. To interact with the concerned course Coordinator and the student separately before taking the decision.
- iii. The decision of the DAAB will be based on simple majority.
- iv. The recommendations of the DAAB shall be communicated to the Dean (Academic) and Principal for further appropriate action if required.

12.2 Class/Course Committee:

Every Class (group of students registered for a course) of the Degree Programme shall have a Class/ Course Committee, consisting of Faculty and Students.

Constitution:

- | | |
|---|--|
| a) One Faculty of the Teaching Department
(nominated by the Program Coordinator) | ...Chairman (not associated
with the class) |
| b) Faculty Advisor(s) for the Class | ... Member Secretary |
| c) Course Coordinator(s) | ... Member(s) |
| d) <i>FOUR</i> to <i>SIX</i> students from the Class/Course
to be chosen by the students amongst
themselves | ... Members |

Functions:

- i. The basic responsibilities of the Class/Course Committees are to review periodically the progress of the classes, to discuss problems concerning curriculum and syllabi and the conduct of the classes.
- ii. Each class/course committee will communicate its recommendations to the Programme Coordinator.
- iii. There shall be minimum one class committee meeting at the middle of every semester as indicated in the academic calendar. However additional class committee meetings may be convened as decided by Course Coordinator.
- iv. During beginning of the semester, the Course Coordinators shall present the method of evaluation and distribution of weightages for the various components.
- v. The minutes of each class/course committee meeting shall be recorded in a separate minutes register maintained in the Parent/Teaching Department.

12.3 Faculty Advisor(s):

The Faculty Advisor(s) will be appointed by the Programme Coordinator of the parent department, who will be assigned a specific group (admission-batch) of students of the concerned parent department, and will be valid throughout their duration of study.

Functions:

- i. To help the students in planning their courses and related activities during their study period.
- ii. To monitor, guide, advice and counsel the students on *all* academic matters.
- iii. To coordinate the activities regarding mandatory learning courses.

12.4 Course Coordinator:**Functions (Highlights):**

- i. He/She shall follow all the Regulations related to teaching of a course and evaluation of students.
- ii. He/She shall be responsible for all the records of the students registered for the course.

- iii. He/She shall conduct classes as prescribed in the Academic Calendar and as per the time table issued by the department.
- iv. He/She will arrange to distribute a course plan and the evaluation plan together with the course objectives, background materials to all the students within the first week of each semester.
- v. He/She will prepare an evaluation plan showing details of how the student's performance will be evaluated in the course.
- vi. He/She will properly document the students' performance and announce to the students (including on the notice board) as stipulated in the Regulations.
- vii. He/She will report to the Programme Coordinator on a periodic (*monthly*) basis, the potential cases of very poor academic performance as well as those of low attendance

Approved in XXIVth Academic
Council, Dated 23/07/2022



ANNEXURE-A

REGULATIONS

SPECIFIC TO

UNDER GRADUATE PROGRAMMES

B. Tech Full Time & Part Time


**Approved in XXIVth Academic
Council, Dated 23/07/2022**



CONTENTS

- A1. Degree Programmes
- A2. Admission
- A3. Course Structure
- A4. Degree Requirements
- A5. Re-registration
- A6. Termination from the Programme
- A7. Change of Branch
- A8. Committees / Functionaries

Approved in XXIVth Academic
Council, Dated 23/07/2022



REGULATIONS specific to B. Tech Degree Programme

A1. DEGREE PROGRAMS:

A1.1 Under Graduate B.Tech Degree Programmes are offered in the following disciplines by the respective programme hosting departments listed below:

- i. Civil Engineering (CE) (FT & PT)
- ii. Computer Science & Engineering (CSE) (FT)
- iii. Electrical Engineering (EE) (FT & PT)
- iv. Electronics and Telecommunication Engineering (ECT) (FT & PT)
- v. Information Technology (IT) (FT)
- vi. Mechanical Engineering (ME) (FT & PT)

Other teaching departments are:

- vii Applied Mechanics (AM)
- viii Mathematics (MA)
- ix Physics, Chemistry, and Humanities and Social Sciences (HS)

A1.2 The provisions of these Regulations shall be applicable to any new disciplines that may be introduced from time to time and appended to the above list.

A2. ADMISSION:

A2.1.1 Admission to GEC, Aurangabad for Full time degree courses will be made in accordance with the instructions and guidelines received from GOVERNMENT OF MAHARASHTRA from time to time.

A2.1.2 Student Exchange Programs and the Transfer of Credits, shall be as per the corresponding MOU approved by Competent Authority.

A2.1.3 The Institute reserves the right to cancel the admissions of any student and ask him to discontinue his studies at any stage of his career on the grounds of unsatisfactory academic performance or indiscipline or any misconduct.

A2.1.4 The decision of the Academic Council regarding the admissions is final and binding.

A2.1.5 Every Under Graduate student of the Institute shall be associated with Degree Awarding Department offering the degree programme that the student undergoes, *throughout* his study period, right from the very first day of admission into the programme.

- A2.1.6** Rules for Admission to the First Year Part Time Degree Courses in Engineering and Technology in Government, Government - Aided and Un-Aided Engineering Colleges From the year 1996-97 are conducted as per Maharashtra Government rules time to time

Sr. No.	Name of Part Time Degree course	Sanctioned Intake
1	B.Tech.(Civil Engineering)	30
2	B. Tech. (Electrical Engineering))	30
3	B. Tech.(Electronics &Telecommunication Engineering)	30
4	B.Tech.(Mechanical Engineering)	30

- A2.1.7** Principal of the Institution in which part time degree courses are conducted will effect admissions subject to the final approval of the Joint Directorate of Technical Education of the region. Direct Second year admissions will be as per Government of Maharashtra guidelines for direct second year admissions.

The eligible candidate seeking admission to part time degree courses in Engineering and Technology shall submit their applications complete in all respect in the prescribed form together with necessary documents as per the admission process initiated by the Principal of college(Institute). A candidate interested in seeking admission in more than one discipline, (if eligible) shall submit a separate application for each discipline.

- A2.1.8** A candidate will be eligible for admission to the part time degree course if he / she has passed in at least second class with an aggregate of 50 percent marks and in case of backward class candidates (from Maharashtra only), with 45 percent marks, the diploma examination of Engineering / Technology conducted by the Board of Technical Examination, Maharashtra State or by any other institution which has been granted academic autonomy by the Government of Maharashtra or recognized as equivalent to the diploma in relevant branch by the Board of Technical Examinations, Maharashtra State.

AND

The candidate should have experience of working in the appropriate profession for at least two years after passing qualified examination as per rule.

- A2.1.9** The branches of diploma will be considered eligible for the purpose of admission to the Second Year of corresponding Part Time Degree Courses in Engineering and Technology as per Government of Maharashtra guidelines.

- A2.1.10** The candidate must have passed the qualifying examination as specified in the Rule from an institution in Maharashtra.

- A2.1.11** Candidate or whose parents are domiciled in Maharashtra State will be eligible for admission to the part time degree course even if he / she has

passed the qualifying examination from outside the State, subject to the production of a domicile certificate.

- A2.1.12** If the Dr. BabasahebAmbedkarMarathwadaUniversity has prescribed any additional or different condition(s) for the eligibility for admission, the same shall be applicable for admission to Government College of Engineering, Aurangabad affiliated to university and admission of any candidate shall be subject to the production of eligibility certificate from the concerned University.

A2.2 Reservation of Seats:

The reservation for backward class category candidates and physically handicapped candidates shall be applicable as per latest Government of Maharashtra directives.

A2.3 Selection basis and Procedure of Admission

- A2.3.1** Merit for admission will be determined on the basis of a corrected total with a maximum of 100 marks, which will be evaluated on the following basis:

- i) 90 percent weightage for marks obtained at the qualifying examination plus
- ii) 10 percent weightage for experience over and above the minimum experience prescribed, at the rate of 2 (two) marks per completed year of experience subject to a maximum of 10 (ten) marks.

- A2.3.2** Experience will be counted from the date of award of diploma or actual date of joining service whichever is later than 31st August of the academic year.

- A2.3.3** In the case of candidate securing equal marks, relative merit will be decided in the following order of preference.

- i. A candidate securing higher percentage in Mathematics in S.S.C. examination.
- ii. A candidate securing higher aggregate percentage in S.S.C. examination.
- iii. A candidate possessing more experience.
- iv. A candidate securing higher marks in Mathematics in Std. XII examination.

- A2.3.4** When application are received from candidates from different patterns the number of seats allocated to each pattern will be proportional to the number of eligible applications received from that particular pattern. Merit list(s) for each pattern; category will be prepared separately based on inter se merit.

- A2.3.5** The principal of the concerned college shall exhibit a provisional merit list arranging all eligible applicants irrespective of category in the order

of merit indicating therein name of the candidate, marks obtained, category, general merit, category merit number and factors affecting relative merit of each candidate. The list of the rejected application(s) shall also be displayed indicating therein the reasons for rejection.

- A2.3.6** A candidate seeking admission shall have a right to raise an objection against omission of his/ her name or merit marks shown against him/ her or other candidate(s), if he/she has a reason to believe that they are not indicated correctly.
- A2.3.7** The candidate shall raise his / her objection in writing within two days of exhibiting of provisional merit list, stating reasons therein, which led him / her to believe that the marks obtained by the candidates against whom he / she has preferred to complain were incorrect with sufficient evidence to support objections.
- A2.3.8** The admitting authorities shall make enquires on the basis of evidence tendered, and decide whether the objections raised have been proved. If the objections are proved, correction to that extent be affected and a final list(s) shall be notified along with the schedule of admission.
- A2.3.9** No correspondence shall be made with the candidate in connection with the deficiencies in application, merit list, scrutiny or any respect. No call letter for interview would be send to the candidate by the principal. The candidate should report personally as per schedule of admission notified on the notice board.
- A2.3.10** If the candidate fails to report for admission as per the schedule loses his / her claim for the admission and that seat shall be offered to the candidate next in the merit list subject to observance of reservations. However if he / she reports afterwards; but during the process of admission, may be considered for admission if the seat is available at that point of time.
- A2.3.11** After offering admission as per the provisions made in previous rules A2.3.2, A2.3.3 and A2.3.4, if any seat remains vacant, the same will be offered to eligible candidates who do not qualify under any of above rules. A separate merit list of all such candidates will be prepared and admission will be done as per inter se merit.
- A2.3.12** In addition to the sanctioned intake capacity and other provisions in these rules, 10 percent additional seats shall be filled on the basis of inter se merit, to provide for any subsequent cancellations.
- A2.3.13** The Principal of the College shall forward to the Joint Director of Technical Education of the region, the list of students actually admitted by him within 15 days after the last date prescribed for admission.
- A2.3.14** Admission is confirmed only on payment of prescribed fees in full.

Important Note:

1. Ladies reservation as applicable
2. As per rules prescribed by Dr. Babasaheb Ambedkar Marathwada University, Minimum two years industrial/ teaching experience in relevant field is required for seeking admission to the part time B.Tech. Course after passing the diploma examination.
3. Employment of the candidate shall be within 60 km radius from Aurangabad Municipal Limits for the entire duration of course. After seeking admission to the institute, if a candidate is transferred and/or accepts employment beyond 60 km radius from Aurangabad, his/her admission during that academic year shall be automatically treated as cancelled. However, the term of such candidates may be granted subjected to submission of No Objection Certificate from employer and sanctioned study leave certificate from the employer.
4. Once the candidate seeks admission to the institute he/she has to follow all the rules and regulations of the institute.
5. If the number of admitted students for any course is less than 60% of the sanctioned intake (i.e.18), then that course will not be run. In such case, the tuition and other fees paid by the candidate shall be returned.
6. In case of any dispute, difference of opinion in interpretation of these regulations or any other matter not covered in these rules or any matter not covered in above rules, the decision of the Principal of the institute shall be final and binding.

A3. COURSE STRUCTURE:

A3.1 The total course package for a B.Tech. Degree Programme will typically consists of the following components.

Typical Curriculum Structure for Degree Programs (As per AICTE Nomenclature)

S.No	Category	Recommended Breakdown of Credits (for Total=160) FT	Recommended Breakdown of Credits (for Total=121) PT
1	Humanities and Social Sciences including Management courses	12	09
2	Basic Science courses	24	07
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc	23	04
4	Professional core courses	51	51
5	Professional Elective courses relevant to chosen specialization/branch	18	18
6	Open subjects – Electives from other technical and /or emerging subjects	15	15
7	Project work, seminar and internship in industry or elsewhere	15	15
8	Activity Based Learning	02	02
9	Mandatory Courses Environmental Studies, Induction Training	(non-credit)	(non-credit)
	Total	160	121

The suggested Course Work (=160 Credits, at 20/Semester on an average For FT and 14-15/Semester on an average credits for PT)

The Minimum Credit Requirement for the B.TECH. FT Degree is 160 and B.TECH. PT Degree is 121. For direct second year admitted students for full time courses total number of credits will be 121. The total number of credits may vary for Part time and Direct Second year students as per the department.

A3.2 Open electives offered by any parent department are courses listed in the course structure under the open elective category and offered to students of any department including the parent department. The students of a particular programme have to complete the total credits required under the elective category by earning the minimum credits prescribed under the Programme Specific Elective (PSE) by registering for courses listed under the PSE category, for the remaining credits to be earned under the elective category, the students have the option to register for courses listed under the Open Elective (OE) category of other departments also.

Project

Project work may consist of Major Project and Mini Projects (optional) offered by parent department. The Major Project is a course with 8 credits and can comprise of Part I and Part II, spread over 1 or 2 semesters of final year, preferably during 7th and 8th semesters. Department may prescribe Mini Project as a requirement for the Degree or in lieu of equivalent elective credits. The method of evaluation for major and minor projects shall be evolved by pertinent BoS and appropriate grade is awarded which will be considered for SGPA and CGPA calculation

Mandatory Courses:

These are courses that must be completed by the student at appropriate time. The 'S' grade is awarded for satisfactory completion of the course and 'N' grade is awarded for noncompletion of the course. The 'S' and 'N' grades do not carry grade-points and hence not included in the SGPA, CGPA computations

A3.3 The Department will discuss and recommend the exact credits offered for the programme for the above components the semester-wise distribution among them, as well as the syllabi of all undergraduate courses offered by the department from time to time before sending the same to the Board of Studies (BOS). The BOS will consider the proposals from the departments and make recommendations to the Academic Council for consideration and approval.

A3.4 **Co-curricular and/or Extra-curricular activities:**

ACTIVITY BASED PERSONALITY DEVELOPMENT

These are non-credit mandatory activities; a student should engage himself/ herself for his /her personality development. A student shall complete at least two activities (with at least one from each group listed below), before the end of seventh semester.

Activity 1: Co-curricular activities, which includes but not limited to activities like organizing and/or participating in activities of student chapters and association, paper presentation, Lab development, participation in national level competitions like Hackathon, BAJA, ROBOCON, etc.

Activity 2: Extracurricular and outreach activities this includes but not limited to activities like NCC, NSS, social work, health care services, activities of association, participation and/or organizing cultural and sports activities, activities of various clubs, etc.

The student is encouraged to participate in as many activities as possible. However he/ she will choose two activities (one from each group) to be presented before the committee formed by the concerned HOD at the end of the seventh semester. The HOD will provide the list of student who has completed the activities satisfactorily to the examination section for inclusion in the grade card of seventh semester.

A3.5 *Lower and Upper Limits for Course Credits Registered in a semester/Session, by a Full time and Part Time Student of the B. Tech. Degree Programme:*

A Full Time student can register for a minimum of 12 credits (For slow learners) and maximum of 28 credits (For fast learners) per semester. The slow and fast learner shall be decided by the individual department based on certain criteria. Such criteria may be decided by the concerned department. However, the minimum / maximum credit limit can be relaxed by the Principal and Dean Academics on the recommendation of BoS under extremely exceptional circumstances. In case of Final Year students the minimum credits may be less than 12, if the remaining credits to be earned, to complete the degree programme, are less than 12

A Part Time student of the B.Tech. degree programme must register for a minimum of 08 credits (For slow learners), and up to a maximum of 16 credits (For fast learners) per semester. The slow and fast learner shall be decided by the individual department based on certain criteria. Such criteria may be decided by the concerned department. However the minimum/maximum credit limit can be relaxed by the Principal and Dean (Academic) on the recommendations of the BoS only under extremely exceptional circumstances.

A4. DEGREE REQUIREMENTS:

The degree requirements of a student for the B.Tech. programme are as follows:

A4.1 Institute Requirements:

- A4.1.1 Minimum Earned Credit Requirement for Degree is 160 for FT and 121 for PT
- A4.1.2 Satisfactory completion of Mandatory Courses
- A4.1.3 Completion of the requirements on Co-curricular and/or Extracurricular activities (Activity Based Learning)
- A4.1.4 The Full time degree will be offered four (04) years after admission only and fulfilling above requirements and Part Time degree will be offered four and half (4 ½) years after admission

A4.2 Programme Requirements:

Minimum Earned Credit Requirements on all individual course categories of the concerned Programme.

- A4.2.1 The Maximum duration for a student for complying to the Degree Requirement is as per affiliating university rules and UGC guidelines.

A5. Re-registration

A student shall be required to reregister for required courses, under the following circumstances:

- (a) If a student fails to earn the minimum credit specified below:

Check Point	Credit Threshold Full time	Credit Threshold Part time
End of FIRST year	24	-----
End of SECOND year	48	24 At the end of 3 semester
End of THIRD year	72	48 At the end of 06 semester

Note: The period of temporary withdrawal is not to be counted for the above Credit Threshold.

A6. TERMINATION FROM THE PROGRAMME:

Approved in XXIVth Academic Council, Dated 23/07/2022

- a. If a student is absent for more than 8 (Eight) weeks at a stretch in a semester without sanctioned leave.
- b. Based on disciplinary action suggested by the Academic Council, on the recommendation of the appropriate committee.
- c. Student will be terminated from the program as per UGC/University rules and regulation

A7. CHANGE OF BRANCH:

Change of branch will be allowed as per rules and regulations for change of branch published by Government of Maharashtra from time to time.

A8. COMMITTEES / FUNCTIONARIES:

The following committees shall be constituted specifically for the Under Graduate (B.E.) degree programme:

A8.1 Board of Studies (BOS-UG):

Constitution: as per UGC/AICTE Guidelines for autonomous institutes.

A8.2 Departmental Faculty Board (DFB)

Constitution:

Programme Co-ordinator	...Chairman
All faculty members	... Members

Note:

- There shall be one DFB for every department that is involved in the teaching for the B.E. degree programme.
- The Secretary (DFB) shall be nominated by the Chairman on rotation basis for a period of one year from faculties.
- The Chairman may co-opt and/or invite more members including at most three outside experts.
- The quorum for each meeting shall be five.

Functions:

- i. To monitor the conduct of all undergraduate courses of the department.
- ii. To ensure academic standard and excellence of the courses offered by the department.
- iii. To develop/revise the curriculum for undergraduate courses offered by the department, and recommend the same to the BOS.

- iv. Moderation (only if and when found necessary) in consultation with the Course Co-coordinator, and approval of the finalized grades, before submission to CoE
- v. To consolidate the registration of the student and communicate to Course Co-coordinators, and also to the Dean (Academic).
- vi. To conduct performance appraisal of Course coordinators.
- vii. To provide feedback of the performance appraisal to the Course Coordinator and concerned authorities.
- viii. To consider any matter related to the undergraduate programme of the department.
- ix. In cases where a course is taught by more than one faculty member, or by different faculty members for different sections of students, shall coordinate (only in case of need) among all such faculty members regarding the teaching and evaluation of such courses.
- x. To conduct at least two meetings each semester and send the Resolutions of the meeting to the Board of Studies and also to maintain a record of the same in the department.
- xi. Any appropriate responsibility or function assigned by the Academic Council or the Chairman of the Academic Council or the BOS or the Chairman of the BOS.

Approved in XXIVth Academic
Council, Dated 23/07/2022



COURSE STRUCTURE - UG

CONTENTS

Course Numbering Scheme

Course Numbers are denoted by character strings

E	E	P	C	2	0	1	0
Department		Course category		Level	Revision	Course Number	


Departments

Sr. No.	Name of Department	Code
1	Civil Engineering	CE
2	Computer Science and Engineering	CS
3	Electrical Engineering	EE
4	Electronics & Telecommunication Engineering	ET
5	Information Technology	IT
6	Mechanical Engineering	ME
7	Applied Mechanics	AM
8	Mathematics	MA
9	Physics	PH
10	Chemistry	CH
11	Institute (Courses which does not belong to any particular department)	IN

Course Category

Sr. No.	Description	Code
1	Basic Science	BS
2	Engineering Science	ES
3	Humanity, Social Science & Management	HS
4	Program Core	PC
5	Program Elective	PE
6	Open Elective	OE
7	Mandatory Course	MC
8	Project	PR
9	Activity Based Learning	AB

Approved in XXIVth Academic
Council, Dated 23/07/2022



For Open Elective & Humanity, Social Science & Management Courses, level will be '0' for Odd term & '1' for Even term

For OE/HS I, Course code number will be from 10 to 19, for OE/HS II, 20 to 29, for OE/HS III 30-39 and so on.

Level 1 : First year, Level 2: Second Year, Level 3: Third Year, Level 4: Fourth Year
Revision indicates updation in course. Initially it will start with zero

Description

For e.g. for specifying

- | | |
|--|----------|
| 1. Course code of physics at first year | PHBS1001 |
| 2. Course code for final year Program Elective of Electrical Engineering | EEPE4005 |
| Department | |
| 3. Course code for Mandatory Course | INMC1001 |
| 4. Course code for Activity Based Learning | INAB4001 |
| 5. Course code for open Elective Course I by Computer Department | CSOE0010 |
| 6. Course code for Engineering Exploration by Electronics Department | ETES1001 |
| 7. Course code for Communication Skill (HS) at first year | INHS0010 |

Contact Hours and Credits

1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
1 Hr. Practical (P) per week	0.5 credits
2 Hours Practical(Lab)/week	1 credit

* Widely accepted figure: Full Time degree, 27 - 30 hours/week, and for **Part Time degree 17-20 hours/week** to enable the students to engage in homework assignments, self-learning outside the Class rooms/Laboratories, Extra/Co-Curricular activities and *add-on Courses*, if any, for their overall development. The Board of study for program can change typical course load giving emphasis on practical based courses conducted in semester but contact hours will not exceed 30 hours/week for full time and 20 hours / week for part time courses.

Approved in XXIVth Academic
Council, Dated 23/07/2022

