

RULES AND REGULATIONS

NEP COMPLIANT CURRICULUM
FOR
UNDERGRADUATE PROGRAMME
Bachelor of Technology

w.e.f. 2023-2024

Revised & approved in 28th Academic Council Meeting held on 25h June 2024



GOVERNMENT COLLEGE OF ENGINEERING AURANGABAD

(An Autonomous Institute of Govt. of Maharashtra)

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Revised & approved in 28th Academic Council Meeting held on 25h June 2024

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The General Regulations are in force for the students taking admission for the first year in engineering from the year 2023-2024 and Onwards for a full-time undergraduate course.

1. INTRODUCTION

- 1.1 The General Regulations that are common to all Degree Programmes of Government College of Engineering, Aurangabad are presented here. Specific aspects of the Regulations pertaining to a particular Degree Programme are given separately along with the corresponding Curriculum.
- 1.2 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).
- 1.3 This set of Regulations shall be binding on all students undergoing the said Degree Program(s) of Government College of Engineering, Aurangabad.
- 1.4 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.
- 1.5 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.
- 1.6 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) herein this set of Regulations or otherwise.
- 1.7 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.


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2.0 **DEFINITIONS:** Unless the context otherwise requires –

- **“Academic Council”** means, Academic Council of the Institute
- **“ABC”** means, Academic Bank of Credit
- **“BoG”** means, the Board of Governance 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-Coordinator(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, Course Structure, and Course-Contents
- **“CET”** means, Common Entrance Test conducted by competent Authority
- **“Dean (Acad)”** means, the Dean (Academics)
- **“Dean (SA)”** means, the Dean (Student Activities)
- **“Dean (R&D)”** means, the Dean (Research & Development)
- **“Reg Acad”** means Registrar Academics
- **“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
- **“HoD”** means the Head of the Department.
- **“Institute”/“GEC”** means, Government College of Engineering, Aurangabad
- **“NEP”** means, National Education Policy 2020
- **“Principal”** means the Head of the Institute.
- **“Programme Coordinator”** means, a faculty in charge of an academic programme
- **“Parent Department”** means, the department that offers the degree programme that a student undergoes
- **“ISE”** means In semester Evaluation
- **“ESE”** means End Semester Examination



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3.0 **ACADEMIC CALENDAR**

3.1 The normal duration of the course leading to B. TECH. degree will be *EIGHT* semesters.

3.2 Each academic year shall be divided into 2 semesters, each of a minimum 90 working days duration (including Examinations duration).

3.3 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.

3.4 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.

3.5 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 Programme 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.

4.0 **REGISTRATION**

4.1 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 fifteen 15 students are required for starting a course in a UG programme. Maximum seventy (70) students can register for any Elective Courses like Multidisciplinary Minor Courses, Honor Courses, Open Electives per division. Head of the Institute is final authority to decide maximum and minimum count of students per division for a course as circumstances exist.

4.2 **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/s well in advance, before the actual start of the academic session, through the process of Pre-


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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.

4.3 All students (other than the freshly admitted students) intending to register for the next higher semester are required to have complete 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 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.

4.4 Students who do not register on the day announced for the purpose, may be permitted LATE REGISTRATION by Head of Department up to the notified day in academic calendar on payment of late fee.

4.5 REGISTRATION IN ABSENTIA will be allowed only in exceptional cases through the authorized representatives of the student with the approval of programme coordinator/HoD.

4.6 A student will be permitted to register in the next semester only if he/she fulfills the following conditions:

- i. Satisfies all the Academic Requirements to continue with the programme of Studies
- ii. Cleared all Institute, Hostel and Library dues and fines (if any) of the previous semesters
- iii. Paid all required advance payments of the Institute and hostel for the current semester
- iv. Not been debarred from registering on any specific ground by the Institute.

5.0 CREDIT & EVALUATION SYSTEM (The Grading System)

5.1 The grading system for Undergraduate Programmes as proposed by Dean (Academics), recommended by the 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 an equivalent number called a grade point.

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

5.3 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).


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5.4 RELATIVE GRADE SYSTEM FOR UG PROGRAM

Award of Grades-

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

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

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

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

5.4.5 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

Where,

M- marks obtained out of 100, k_1 = Minimum marks of (A++-1) or maximum marks secured if no student is awarded A++, $k_7=40$; $C = \text{abs}(k_1 - k_7)/6$; $k_2 = (k_1 - C)$; $k_3 = k_2 - C$; $k_4 = k_3 - C$; $k_5 = k_4 - C$; $k_6 = k_5 - C$


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5.4.6 The SGPA and CGPA shall be calculated as per the procedure followed based on credits. The equivalent percentage from CGPA shall be calculated as (CGPA) X 10.

5.4.7 Class is awarded on the basis of CGPA First Division with
Distinction = CGPA \geq 7.00

First Division = 7.00 > CGPA \geq 6.00
Second Division = 6.00 > CGPA \geq 5.00
Pass Class = CGPA < 5.00

5.5 Evaluation System

5.5.1 Marking Scheme for theory courses will be as follows:

Sr. No	Theory/ Practical course	No of credits	ISE I	ISE II	ISE III	ESE	Total
1	Theory	3/4	15	15	10	60	100
2		2	10	10		30	50
3	Practical	1/2			25/50	25/50/ (optional)	

5.5.2 Exam Duration

Sr. No	Marks for the exam	Duration
1	ISE – 15 marks	One Hour
2	ISE – 10 marks	45 minutes
3	ESE – 30 marks	1 Hr 30 minutes
4	ESE – 60 marks	2 Hrs 30 minutes

5.5.3 Passing criteria

Students shall pass a theory course if the total number of marks scored in ISE I, ISE II, ISE III and ESE is greater than or equal to 40%.

Students shall pass a practical course provided the scoring is greater than or equal to 40% separately for a Term work (ISE III normally) and Practical exam (ESE).


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6.0 **ADD / DROP**

6.1 ADD-option:

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

6.2 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.



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7.0

ATTENDANCE REQUIREMENTS

7.1 All students must attend every lecture, tutorial and practical class in an Offline/Online mode as the case may be.

7.2 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.

7.3 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 of attendance 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.

Absence due to illness or any other valid and genuine reason/s for a period less than two weeks in a semester to which a student could not make a prior application may be condoned by Head of Institute after proper verification.

7.4 The course coordinator shall communicate periodically the attendance of the concerned students and shall publish list of provisionally detained students with the reason thereof at least one week before the last day of instruction in the current semester.

7.5 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

7.6 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.


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8.0

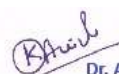
ABSENCE DURING THE SEMESTER

8.1 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.

8.2 Absence during In-Semester Evaluations:

Leave of absence during class test shall be permitted if (a) hospitalized (ii) death of siblings/ parents/grandparents (iii) deputed by the institute. Re class test may be arranged for such cases.



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CREDIT TRANSFER

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. Such credit transfer will be based upon Academic Bank of Credits (ABC).

Since Credits awarded to a student for one programmes from an institution may be transferred/redeemed by another institution upon the student's consent through ABC, it is essential that all students should get enrolled on ABC, create ABC ID, and share these ABC IDs with Academic Institutions where they are enrolled. Credits Earned by the student will reflect in the student's ABC account. 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 up to 40% of the total courses being offered in a particular programme in a semester through the **Online Learning Courses** offered through the **SWAYAM/NPTEL** platform and/or other State Level Common Platforms which can be developed in due course with the participation of different Universities/ Higher and Technical Education Institutions.
- b) Courses which are not covered in (a) may be considered with approval of GEC academic council.
- c) Multi-institutional learning permission: The student shall be allowed to earn some credits from NEP compliant institutions/colleges other than the Main/ Parent College i.e. a college where students earn all their major credits (more than 50%) including credits for the core subject.
- d) Students enrolled in the degree programmes may avail other elective credits from two different colleges affiliated with the same University and/or online courses available within the 40% cap mentioned by UGC.
- e) 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
- f) A student has to get minimum passing grades/ marks for such courses for which the credits transfer is to be made.
- g) Credits transfers availed by a student shall be properly recorded on ABC card.


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10 WITHDRAWAL FROM THE PROGRAMME

10.1 Temporary Withdrawal

- a) A student who has been admitted to a degree programme of the Institute may be permitted to withdraw temporarily, but its compulsory condition that candidate shall complete the degree within 8 years from the date of admission to the programme.
- i) He/She applies to the Institute stating fully the valid reasons for withdrawal substantiated with supporting documents and endorsement from his parent/guardian;
- ii) There are no outstanding dues with the Departments / Institute / Hostels / Library / etc.;
- iii) Scholarship holder students are bound by the appropriate Rules and Regulations of Maharashtra state authorities as applicable to them.
- iv) The decision of the Principal of the Institute regarding withdrawal of a student is final and binding.

10.2 Permanent Withdrawal:

Any student who withdraws admission before the closing date of admission for the Academic Session is eligible for the refund of all the fees and deposits, after a deduction of a processing fee. For the first year admitted student's permanent withdrawal is defined as per the norms of admission by Government of Maharashtra. Once the admission for the year is closed, the following conditions governs 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. The decision of the Head of Institute/Principal of the Institute regarding all aspects of withdrawal of a student shall be final and binding.


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11.0 MULTIPLE EXIT and ENTRY PATH

11.1 Re-entry or Lateral Entry

- Students, opting for exits at any level, will have the option to re-enter the programme in ODD semesters from where they had left off, in the same or in a different higher education institution within four years of exit and complete the degree programme within the stipulated maximum period of eight years from the date of admission to first year UG (As per the guidelines issued by Government of Maharashtra from time to time).
- Re-entry at various levels for lateral entrants in academic programmes shall be based on the earned and valid credits as deposited and accumulated in the Academic Bank of Credits (ABC) through Registered Higher & Technical Education Institutions (RHTEI) and proficiency test records.
- Lateral entry into the programme of study leading to the UG Diploma/ B. Vocational/ UG Bachelor's Degree with single minor/ UG Bachelor's Degree with Double Minor/ Honor /Research will be based on the validation of prior learning outcomes achieved and subject to availability based on intake capacity.

11.2 Multiple Exit

- The multiple exit options with the award of UG certificate/ UG diploma/or three-year degree depending upon the number of credits secured. Students will have the flexibility to enter a programme in odd semesters (as per the guidelines issued by Government of Maharashtra from time to time) and exit a programme after the successful completion of even semesters as per their future career needs.
- Students exiting the First-Year programme after securing minimum 44 credits (pass all the FY courses as per programme structure) will be awarded UG Certificate in the relevant Discipline/Subject provided they secure 8 credits in work-based vocational courses or internship / Apprenticeship offered during summer vacation in addition to 4 credits from skill-based courses earned during the first and second semester as prescribed in the concerned programme structure
- Students exiting the Second Year Programme will be awarded UG Diploma in the relevant Discipline/Subject provided they pass all the courses up to second year as prescribed in the concerned programme structure AND secure additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc) offered


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during summer vacation after the second year as prescribed in the concerned programme structure

- Students exiting the 3-year UG program will be awarded B.Voc. in the relevant Discipline /Subject provided they pass all courses up to third year as prescribed in the concerned programme structure AND secure additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc.) offered during summer vacation after the sixth semester as prescribed in the concerned programme structure
- Exit options shall be provided with Certification, Diploma and B. Vocational degrees to the students at the end of the second, fourth and sixth semester, respectively, in the four-year degree programme. Students will receive a Bachelor's degree with a single minor on successfully completing all eight semesters of the UG Programmes either at a stretch or with opted exits and re-entries.
- In addition to this, student will receive a Bachelor's degree with Double Minor/Honor/ Research subject to earning additional credits as specified in programme structure.
- Eligibility for admission to the UG Bachelor's Degree with Double Minor/ Honor /Research as per UGC guidelines: Minimum CGPA of 7.5 after second semester for UG Bachelor's Degree with Double Minor/ Honor and Minimum CGPA 7.5 after sixth semester for UG Bachelor's Degree with Research.

12. CONDUCT AND DISCIPLINE

- 12.1** Students shall conduct themselves within and outside the premises of the Institute in a manner befitting the students of a reputed Institution.
- 12.2** 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.
- 12.3** The following acts of omission and/or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures:
- Ragging.
 - Lack of courtesy and decorum; indecent behavior anywhere within or outside the campus.
 - Willful damage or stealthy removal of any property/belongings of the Institute/Hostel or of fellow students/citizens.
 - Possession, consumption or distribution of alcoholic drinks or any kind of narcotics or hallucinogenic drugs.
 - Mutilation or unauthorized possession of library books.


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- Noisy and unseemly behavior, disturbing studies of fellow students.
- 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 cybercrime etc.) □ Plagiarism of any nature.
- 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.

- 12.4** For an offence committed in (i) a hostel (ii) a department or in a classroom and (iii) elsewhere, the Chief Warden, the Head of the Department and the Dean (Students Activities), respectively, shall have the authority to reprimand or impose fine.
- 12.5** 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.
- 12.6** All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the Principal.
- 12.7** 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.
- 12.8** The students are allowed to enter in the campus of Government College of Engineering Aurangabad(M.S) in "Prescribed Uniform" only. The students are not allowed to enter in Institute campus with other dress code which violates the civil society laws.

13 GRADUATION REQUIREMENTS AND CONVOCATION:

- 13.1** 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.


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13.2 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.



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14 COMMITTEES and FUNCTIONARIES

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

14.1 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 ...Chairman (not associated
(nominated by the Program Coordinator) with the class)
- b) Faculty Advisor(s) for the Class ... Member Secretary
- c) Course Coordinator(s) ... Member(s)
- d) *FOUR* to *SIX* students from the ... Members
Class/Course to be chosen by the students
amongst themselves

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 in 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.

14.2 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.


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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.

14.3 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 timetable 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


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ANNEXURE-A

REGULATIONS

SPECIFIC TO

UNDERGRADUATE B. Tech PROGRAMMES



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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)
- ii. Computer Science & Engineering (CSE)
- iii. Electrical Engineering (EE)
- iv. Electronics and Telecommunication Engineering (E&TC)
- v. Information Technology (IT)
- vi. Mechanical Engineering (ME)

Other teaching departments are:

- vii Applied Mechanics (AM)
- viii Mathematics (MA)
- ix Physics (PH), Chemistry (CH)

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 degree courses will be made in accordance with the instructions and guidelines received from Government of Maharashtra and governing authorities 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 on the grounds of unsatisfactory academic performance or indiscipline or any misconduct.

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

A2.1.5 Every Undergraduate 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.


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A3. COURSE STRUCTURE:

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

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

Components		Total Credits
Basic Science Course	BSC	16
Engineering Science Course	ESC	14
Programme Core Course (PCC)	Program Courses	50
Programme Elective Course (PEC)	Program Elective	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	14
Open Elective (OEC) Other than a particular program	Open Elective	08
Vocational and Skill Enhancement Course (VSE)	Skill Courses	08
Ability Enhancement Course (AEC)	Humanities Social Science and Management (HSSM)	04
Entrepreneurship/Economics/Management Courses (EEM)		04
Indian Knowledge System (IKS)		02
Value Education Course (VEC)		04
Research Methodology (RMC)	Experiential Learning Courses	02
Community Engagement Project/Field Project (CEP)		02
Project (PRJ)		06
Internship/ On Job Training (INT)		12
Co-curricular Courses (CCC)	Liberal Learning Courses	04
Total Credits (Major)		170

*There may be slight variation in Program core and Experiential learning credits for different programs but total credits will be 170

The Minimum Credit Requirement for the B.TECH. Degree with one minor is 176. Apart from these students shall opt for one of the following by availing additional credits as defined in the course structure of the programme:

1. B. Tech with one Multidisciplinary Minor = Total 170
2. B. Tech with one Multidisciplinary Minor (170) and Honor (18) = Total 188
3. B. Tech with one Multidisciplinary Minor (170) and Honor by Research (18) = Total 188
4. B. Tech with two Multidisciplinary Minors (170 +14) = Total 184


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Total Credits for the completion of B.Tech. Course with Minor for Direct Second Year admitted students:

The total number of credits proposed for the B.Tech with 1 Multidisciplinary minor (Compulsory) degree is **128** as per the structure given below:

Semester		III	IV	V	VI	VII	VIII	Total Credits
Programme Core Course (PCC)	Program Courses	12+02*	10	15	11	--	-	50
Programme Elective Course (PEC)	Program Elective	--	--	04	08	08	-	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	04	03	04	03			14
Open Elective(OE)Other than a particular program	OE	03	03	02	--	--	--	08
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	--	02	--	02	--	--	04
Ability Enhancement Course (AEC -01, AEC-02)	Humanities Social Science and Management (HSSM)	--	02	--	--	--	--	02
Entrepreneurship/Economics/Management Courses		02	02	--	--	--	--	04
Indian Knowledge System (IKS)			--	--	--	--	--	-
Value Education Course (VEC)		02	02	--	--	--	--	04
Research Methodology	Experiential Learning Courses	--	--	--	--	--	02	02
Comm. Engg. Project (CEP)/Field Project(FP)		02	--	--	--	--	--	02
Project		--	--	--	--	02	04	06
Internship/OJT		--	--	--	--	--	12	12
Co-curricular Courses(CC)	Liberal Learning Courses	--	--	--	--	--	-	-
Total Credits(Major)		27	24	25	24	10	18	128

Students can opt for any of the following as per the rules and regulations given by institute:

1. B. Tech with one Minor = Total 128 Credits
2. B. Tech with one Minor and Honor = Total 146 Credits
3. B. Tech with one Minor and Honor by Research = Total 146Credits
4. B. Tech with two Minors = Total 142 Credits


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A3.2 Course Allotment

- **Compulsory Multidisciplinary Minor Subject**

Students shall complete one Minor may be from the different disciplines of the Engineering faculty, or they can be from different faculty altogether. These subjects shall be completed from the second year to the final year of UG Programme.

- **Open Elective Courses**

Open electives offered by a parent department are courses listed in the course structure under the open elective category and offered to students. It is to be chosen compulsorily from faculty other than that of the Major Discipline.

- **Programme Elective Course**

The students of a particular programme have to complete the total credits required under the program elective category by earning the minimum credits prescribed under the Programme Elective Course (PEC) by registering for courses listed under the PEC category.

- **Skill Courses** ○ **Vocational and Skill Enhancement Course**

Vocational and Skill Enhancement Courses includes courses giving exposure to Hands on Training corresponding to the Major and/or Minor Subject.

- **Humanities Social Science and Management** ○ **Ability Enhancement Course**

Courses dealing with English and Modern Indian Language. It is to be offered from the Basket approved by Institute.

- **Entrepreneurship/Economics/ Management Courses** Courses dealing with above mentioned areas and these courses must be offered from the Basket approved by Institute.

- **Indian Knowledge System**

These are expected to contain basic knowledge of the IKS subject. It should contain introductory information about the IKS. The student should be able to acquire basic knowledge after completion of the course.

- **Value Education Courses**

Value Education Courses (VEC) such as Understanding India, Environmental Science/Education, and Digital and Technological Solutions or any other similar course.

- **Experiential Learning** ○ **Research Methodology**

This course is to be offered to students in either VII or VIII semester.

- **Community Engagement Project/Field Project**

These are the courses requiring students to participate in field based learning/projects generally under the supervision of faculty. The curricular component of 'community engagement and service will involve activities that would expose students to the socioeconomic issues in society so that the theoretical learnings can be supplemented by actual life experiences to generate solutions to real-life problems. 26-30 hours of contact time per credit in a


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semester along with 13-15 hours of activities such as preparation for community engagement and service, preparation of reports, etc., and independent reading.

○ **Project**

Project work may consist of Major Project offered by parent department. The Major Project is a course with 4 credits and can comprise of Part I and Part II, spread over 1 or 2 semesters of final year, preferably during VII and VIII semesters.

○ **Internship / On-Job Training**

Internship corresponding to major course or in a industry wherein student is placed is of one semester is to be offered in VIII semester. Courses offered during internship period will be completed in online mode.

● **Co-curricular courses**

Students shall complete Liberal learning courses aka co-curricular courses such as Health and Wellness, Yoga education sports, and fitness, Cultural Activities, NSS/NCC and Fine/ Applied/ Visual/Performing Arts.

A3.3

The Department will discuss and recommend the exact credits offered for the programme for the above components and the semester-wise distribution among them through programme structure, 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.

A4. DEGREE REQUIREMENTS

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

A4.1 Institute level Credit Requirements

A4.1.1 Minimum Earned Credit Requirement for:

- B. Tech Degree with one Multidisciplinary minor is
176 admitted to first year in the institute
134 credits for direct second year admitted students.
- B. Tech Degree with one Multidisciplinary minor and Honor is
194 admitted to first year in the institute
152 credits for direct second year admitted students.
- B. Tech Degree with one Multidisciplinary minor and Honor by Research is
194 admitted to first year in the institute
152 credits for direct second year admitted students
- B. Tech Degree with two Multidisciplinary minors is
190 credits admitted to first year in the institute


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148 credits for direct second year admitted students

A4.1.2 The minimum time period to offer degree will be four (o4) years after admission only.

A4.2 Programme Requirements:

A4.2.1 Minimum Earned Credit Requirements on all individual course categories of the concerned Programme.

A4.2.2 The Maximum duration for a student for complying to the Degree Requirement is as per NEP 2020/UGC/AICTE/DTE/affiliated university guidelines.

A5. Re-registration and Admission

A student has a choice to re-register for required courses, under the following circumstances:

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

Check Point	Credit Threshold
End of FIRST year	26 credits
End of SECOND year	All FY credits + 26 SY credits
End of THIRD year	All FY and SY credits + 26 TY CREDITS

(b) Students have to earn minimum credits as specified in the above table to be promoted to higher class.

(c) Students availing admission to the second year have to earn minimum 26 credits of the first year as prescribed in the concerned programme structure.

(d) Students availing admission to the third year have to pass all the courses of the first year as prescribed in the concerned programme structure and have to earn minimum 26 credits from second year specified programme structure for B. Tech degree with one multidisciplinary minor.

(e) Students availing admission to the final year have to pass all the courses of the first year and second year as prescribed in the concerned programme structure and have to earn 26 credits from third year specified programme structure for B. Tech degree with one multidisciplinary minor.


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A6. TERMINATION FROM THE PROGRAMME:

- 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.


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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.


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COURSE STRUCTURE - UG

CONTENTS

Course Numbering Scheme

E	E	P	C	C	1	0	0	1
Department		Course Category			Level	Revision	Course Number	

For Minor 1 courses

E	E	M	D	M	5	0	0	1
Department		Course Category			Level - Minor 1	Revision	Course Number	

Level for Minor 1 -- 5 (MDM)

Level for Minor 2 -- 6 (MDM)

Level for Honor -- 7 (HNC)

Level for Research -- 8 (RPR)

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


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Course Category

Sr. No.	Description	Code
1	Basic Science Courses	BSC
2	Engineering Science Courses	ESC
3	Programme Core Courses	PCC
4	Programme Elective Courses	PEC
5	Multidisciplinary Minor Courses	MDM
6	Open Elective Courses	OEC
7	Vocational and Skill Enhancement Courses	VSE
8	Humanity, Social Science & Management (HSSM)	
	Ability Enhancement Courses	AEC
	Entrepreneurship/Economics/ Management	EEM
	Indian Knowledge System	IKS
	Value Education Courses	VEC
9	Experiential Learning	
	Research Methodology Courses	RMC
	Community Engagement Project /Field Project	CEP
	Project	PRJ
	Internship / OJT	INT
10	Co-curricular Courses	CCC
11	Honor courses	HNC
12	Research courses	RPR

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

For OES/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

Level for Minor 1 - 5 (MDM), Level for Minor 2 - 6 (MDM)

Level for Hon - 7 (HNC), Level for Research - 8 (RPR)

Description

For e.g. for specifying

1.	Course code of physics at first year	PHBSC10XX
2.	Course code for final year Program Elective of Electrical Engineering Department	EEPEC40XX
3.	Course code for Open Elective Course I offered in ODD term by Computer Department	CSOEC00XX
4.	Course code for Engineering Exploration by Electronics Department	ETVSE10XX
5.	Course code for Communication Skill	INAEC10XX
6.	Minor course of CSE opted by ETX student	CSMDM50XX


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