

**RULES AND REGULATIONS  
REGARDING CURRICULUM AS PER  
CHOICE BASED CREDIT SYSTEM  
FOR  
POST GRADUATE PROGRAMMES  
(Master of Technology and Master of Computer Applications)**

**As approved by the XVIth Academic Council, Dated 21<sup>st</sup> June 2017**

**(As amended up to 26<sup>th</sup> August 2019 & supersedes all rules & regulations published  
previously)**



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**Academic Rules and Regulations Regarding Curriculum as per Choice  
Based Credit System for Post Graduate Programmes  
(To be implemented from Year 2018-2019)**

**1 INTRODUCTION:**

- 1.0 The General Regulations that are common to all Post Graduate Programmes of Government College of Engineering, Aurangabad, are presented here. Specific aspects of the regulations pertaining to a particular programme are given separately along with the corresponding curriculum.
- 1.1 The provisions contained in this set of regulations govern the policies and procedures regarding admission of students, imparting instructions of the courses, conducting examination and its evaluation and certification of student's performance.
- 1.2 This set of regulations, shall be binding on all the students undergoing the Post Graduate Programme(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 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 the parties concerned. Further, any legal disputes arising from this set of regulations shall be limited to the legal jurisdiction of Aurangabad and not that of any other parties.

**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-number* 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 Co-ordinator”** means, the teacher or the Course Co-ordinator of a Course
- **“Curriculum”** includes the set of Academic Regulations, Course-Structure and Course-Contents
- **“CET”** means, Common Entrance Test conducted by competent Authority
- **“Institute”/“GEC”** means, Government College of Engineering, Aurangabad
- **“Dean (A)”** 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 Principal of the Institute
- **“HOD”** means, the Head of the Department
- **“Programme coordinator”** means, a faculty in charge of an academic programme
- **“Parent Department”** means, the department that offers the Post Graduate degree programme that a student undergoes

### **3 ACADEMIC CALENDAR:**

- 3.1 The normal duration of the course leading to M. Tech. degree will be **FOUR** semesters for full time and **SIX** semesters for M. Tech. Part Time and M.C.A. Full time
- 3.2 Each academic year shall be divided into 2 semesters, each of minimum 90 working days duration (Including Examination) for full time programmes and 3 semesters, each minimum of 90 working days duration (Including Examination) for Part Time programmes.
- 3.3 The schedule of academic activities for a semester, including the dates of registration, in-semester evaluations, end-semester 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 strictly 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 REGISTRATION:**

- 4.1 Every Student after consulting his Faculty-Advisor is required to register for the approved courses of Parent Department at the commencement of each semester on the days fixed for such registration and notified in the academic calendar. Programme coordinator will monitor and appoint Departmental Committee's in order to properly facilitate course registration. All students must personally be present on these dates. Minimum Six (6) students are required for starting the elective course of elective programme. In exceptional cases maximum Eighteen (18) students in case of full time programme and maximum Thirteen (13) students in case of part time programme can register for an Elective Course. Minimum Twenty (20) students are required to be registered in case of MCA programme.
- 4.2 **Lower and Upper Limits for Course Credits Registered in a Semester, by a Full-time Student of a post graduate Degree Programme:** A full time/part time student of a particular post graduate 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 Post Graduate degree programme as stipulated in the specific Regulations pertaining to that degree programme as prescribed in Annexure A.
- 4.3 **Mandatory Pre-Registration for Elective Courses:** 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. The span of pre-registration shall be declared on website and academic calendar.
- 4.4 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 Preregistration 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.

- 4.5 **Course Pre-Requisites:** In order for a student to register for some 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.
- 4.6 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.
- 4.7 *REGISTRATION IN ABSENTIA* will be allowed only in exceptional cases to the authorized representatives of the student with the approval of committee formed by Principal and programme coordinators.
- 4.8 A student will be permitted to register in the next semester only if he/she fulfills the following conditions:
- a) Satisfied 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.

## **5 Credit and Evaluation System**

### **5.1 The Grading System**

The grading system for Post Graduate Programmes as recommended by Dean (Academics) and approved by 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. The course coordinator shall provide term work/ practical /oral/ Viva-voce or any other heads of assessment at course coordinator level in the form of relative grades based on internal and /or external assessment as applicable amongst the appearing students.

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

### **5.3 Relative Grade System for M. Tech. & MCA Programmes (To be Implemented from 2018-19)**

#### **Award of Grades**

- 5.3.1 Grade A++ absolute grade to be awarded to 10 % or less number of students securing more than 90 % marks
- 5.3.2 In the case of students appearing for Re-examination the grade shall not be higher than A+ in that particular course
- 5.3.3 Grade D absolute grade to be awarded to a student who fails in the subject securing less than 50 % marks or student remaining **ABSENT** in a course of End Semester Examination/ Re-Examination
- 5.3.4 The intermediate grade shall be divided on equal scale between student securing A++ and C+ grade.
- 5.3.5 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
$k_1 \geq M > k_2$	A+	9.0
$k_2 \geq M > k_3$	A	8.0
$k_3 \geq M > k_4$	B+	7.0
$k_4 \geq M > k_5$	B	6.0
$k_5 \geq M > k_6$	C+	5.0
$M \leq k_6$	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++

$k_6 = 49$ ;

$C = (k_1 - k_6) / 5$ ;

$k_2 = (k_1 - C)$ ;  $k_3 = k_2 - C$ ;  $k_4 = k_3 - C$ ;  $k_5 = k_4 - C$

These rules are applicable for following semesters

- First, Second, Third, Fourth, Fifth and Sixth semester of MCA Programme
- First, second and third semester of M.Tech. Full time programme
- First, Second, Third, Fourth and Fifth semester of M.Tech. Part time programme.

In case of Dissertation-II of Fourth semester of M.Tech. Full Time and Sixth semester of M.Tech. Part time programme the grades will be as follows,

Range of Marks (%)	Grade	Grade Point
91-100	A++	10.0
82-90	A+	9.0
74-81	A	8.0

66-73	B+	7.0
58-65	B	6.0
50-57	C+	5.0
Below 50	D	0

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

5.3.7 Class is awarded on the basis of CGPA

First Division with Distinction =  $CGPA \geq 7.25$

First Division =  $7.25 > CGPA \geq 6.25$

Second Division =  $6.25 > CGPA \geq 5.25$

Pass Class =  $5 < CGPA < 5.25$

#### 5.4 **Submission of Dissertation Report:**

##### **M. Tech. Programme:**

5.4.1 The student shall present the dissertation work at the time of pre submission viva before departmental committee comprising of Guide and at least two faculty members from same discipline. In view of maintaining the quality of research, publications only under SCI, web of Science, Scopus, and Indian Citation Index Journal need to be encouraged. The proof of submitting paper to SCI, web of Science, Scopus, Indian Citation Index Journal or filing patent should be considered as a mandatory requirement for submission of Dissertation. The student may also be encouraged to attend recognized conferences. If Dissertation work is in collaboration with industry /organization/ research agency, the uploading of paper /filing a patent shall not be mandatory but desirable.

5.4.2 The student shall incorporate the suggestions and submit the dissertation report in soft bound form before 31<sup>st</sup> August of the academic year. Else the student is required to pay extension fees as decided by the Board of Management.

5.4.3 After final viva-voce the suggestions/ modifications suggested by external examiner at the time of viva- voce should be incorporated and then five hard bound copies shall be submitted.

5.4.4 The result shall be declared only after submission of hard bound copy.

## **6 ADD / DROP Options**

### **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 the recommendation of the Teaching Department as well as the



Parent Department, a student has the option to DROP courses other than core courses from registration, before the date of provisional detention as indicated in the Academic Calendar.

## **7 ATTENDANCE REQUIREMENTS:**

- 7.1 To account for approved leave of absence (eg. 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.
- 7.2 A student with less than 75% attendance in a course during a semester, in lectures, tutorials and practical taken together as applicable, will not be permitted to appear in the End Semester Examinations of the course in which the shortfall exists, irrespective of his academic performance, and irrespective of nature of his absence .The student will have to reregister 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.
- 7.3 The course Coordinators shall communicate periodically the attendance of the concerned students and shall publish list of provisionally detained student with the reason there of at least one week before the last day of instruction in the current semester.
- 7.4 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, programme coordinator and controller of examination
- 7.5 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.

## **8 ABSENCE DURING THE SEMESTER:**

### **8.1 Leave of Absence:**

- a) The leave of absence for the student for valid and genuine reason 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 not in receipt of such request in writing shall grant leave under genuine circumstances or shall reject if found not satisfactory.

## **9 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 post

graduate 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) Postgraduate students can register courses approved by the concerned programme, in recognized Institutions of national importance IITs, NITs, universities, research organization, TEQIP assisted autonomous institutes or credit courses conducted under GIAN.
- b) Courses which are not covered in (a) may be considered with approval of academic council.
- c) Students can earn external credits only from IISC/IITs/NITs/IIMs and other Indian or foreign Universities/Institutes /Colleges with which GEC has prior approval of transfer of credits.
- 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 GECA.
- e) A student has to secure minimum passing grades/ marks for such courses for which the credit transfer is to be implemented.
- f) Credit transfer availed by a student shall be properly recorded on academic record(s) of the student.

## **10 WITHDRAWAL FROM THE PROGRAMME:**

### **10.1 Temporary Withdrawal:**

- a) A student who has been admitted to a Post Graduate degree programme of the Institute may be permitted to withdraw temporarily, for a period of one semester or more, on the grounds of prolonged illness or grave calamity in the family, employment elsewhere etc., provided:
  - i. He applies to the Institute stating fully the reasons for withdrawal together with supporting documents and endorsement from his parent/guardian;
  - ii. The Institute is satisfied that, without counting the period of withdrawal, the student is likely to complete his requirements of the degree within the time specified.
  - iii. There are no outstanding dues with the Departments / Institute / Hostels / Library / etc.
  - iv. Scholarship holders are bound by the appropriate Rules applicable to them.
  - v. 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 temporary withdrawal during his tenure as a student and this withdrawal will not be counted for computing the duration of study.
- c) In case of the student discontinued the programme due to employment, He/She may continue the programme after obtaining N.O.C. and appropriate study leave from the competent authority.

## 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 the all the fees and deposits, after a deduction of a processing fee. For the first year admitted student 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 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.

## 11 CONDUCT AND DISCIPLINE:

- 11.1 Students shall conduct themselves within and outside the premises of the Institute in a manner befitting the students of a reputed Institution.
- 11.2 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.
- 11.3 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.

- 11.4 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 and the Dean (Students Activities), respectively, shall have the authority to reprimand or impose fine.
- 11.5 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.
- 11.6 All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the Principal.
- 11.7 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 REQUIREMENTS FOR AWARD OF DEGREE AND CONVOCATION:**

- 12.1 A student shall be declared to be eligible for the award of the Post Graduate degree if he/she has:
- a) Fulfilled the requirements of Post Graduate Degree
  - b) No dues to the Institute, Departments, Hostels, Library, and No disciplinary action is pending against him/her.
- 12.2 **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.

## **13 COMMITTEES / FUNCTIONARIES:**

The following committees shall be constituted for the departmental Post Graduate degree Programmes. However, the corresponding committees constituted for UG programmes may also function for the PG Programmes.

### **13.1 *Departmental Academic Appeals Board (DAAB):***

#### **Constitution:**

- a) Programme Coordinator of the teaching ... Chairman  
/parent Dept.

- |                                                                          |     |            |
|--------------------------------------------------------------------------|-----|------------|
| b) Three faculty members of the department                               | ... | Member (s) |
| c) One faculty from outside the Department<br>nominated by the Principal | ... | Member     |
| d) Faculty Advisor(s) of the Class from where<br>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 Chairman instead of Head of the Department.
- If the concerned coordinator is a member of DAAB then he/she shall keep himself out of the Board during deliberations.

**Functions (Highlights):**

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

**13.2 Class/Course Committee:**

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

**Constitution:**

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

**Functions (Highlights):**

- a) 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.
- b) Each class/course committee will communicate its recommendations to the Programme Coordinator.
- c) 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 Co-ordinator.

- d) During beginning of the semester, the Course Co-ordinators shall present the method of evaluation and distribution of weightages for the various components.
- e) The minutes of each class/course committee meeting shall be recorded in a separate minutes register maintained in the Parent/Teaching Department.

### 13.3 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 (Highlights):**

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

### 13.4 Course Co-coordinator:

#### **Functions (Highlights):**

- a) He/She shall follow all the Regulations related to teaching of a course and evaluation of students.
- b) He/She shall be responsible for all the records of the students registered for the course.
- c) He/She shall conduct classes as prescribed in the Academic Calendar and as per the time table issued by the department.
- d) 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.
- e) He/She will prepare an evaluation plan showing details of how the student's performance will be evaluated in the course.
- f) He/She will properly document the students' performance and announce to the students (including on the notice board) as stipulated in the Regulations.
- g) 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.

**ANNEXURE-A  
REGULATIONS SPECIFIC  
TO  
POSTGRADUATE PROGRAMMES  
(M.Tech./MCA)**

**CONTENTS**

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**A1. POST GRADUATE DEGREE PROGRAMMES:**

**A1.1** The list of Post Graduate M. Tech./MCA Degree Programmes offered by various departments on Full Time (FT) and Part Time (PT) basis along with the intake capacity are as given below:

Name of the Department	Post Graduate Programme	Type	Intake
Civil Engineering	M.Tech. (Water Resources Engineering)	FT	18
	M.Tech. (Geotechnical Engineering)	PT	13
Applied Mechanics	M.Tech. (Structural Engineering)	FT	18
	M.Tech. (Structural Engineering)	PT	13
Mechanical Engineering	M.Tech. (Production Engineering)	FT	18
	M.Tech. (Production Engineering)	PT	13
	M.Tech. (Mechanical Engineering Design)	PT	13
Electrical Engineering	M.Tech. (Electrical Power Systems)	FT	18
	M.Tech. (Electrical Machines and Drives)	FT	18
	M.Tech. (Electrical Power Systems)	PT	13
Electronics and Telecommunication Engineering	M.Tech. (Electronics and Telecommunication)	FT	18

	M.Tech. (Electronics and Telecommunication)	PT	13
Computer Science and Engineering	M.Tech. (Computer Science and Engineering)	FT	18
	M.Tech. (Computer Science and Engineering)	PT	13
Master of Computer Applications	Master of Computer Applications (MCA)	FT	60

**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** Admission to GEC , Aurangabad for Post Graduate Degree Programmes will be made in accordance with the instructions and guidelines received from GOVERNMENT OF MAHARASHTRA from time to time. Seats are reserved for candidates belonging to Scheduled Castes and Scheduled Tribes, Other Backward Classes (OBC), Physically challenged candidates, children of defense personnel and other categories as per the guidelines issued by GOVERNMENT OF MAHARASHTRA.

**A2.2** Student Exchange Programs and the Transfer of Credits, shall be as per the corresponding MOU approved by the Competent Authority.

**A2.3** 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.

**A2.4** The decision of the Academic Council regarding the admissions is final and binding.

**A2.5** Every Post Graduate student of the Institute shall be associated with Degree Awarding Department offering the Post Graduate degree programme that the student undergoes, throughout his study period, right from the very first day of admission into the programme.

## **A3. COURSE STRUCTURE:**

**A3.1** The curriculum structure of M.Tech. Degree Programmes shall typically consist of the following components. 10% variation in suggested breakdown in each category is permitted subject to total credits of 68.

Sr.No.	Course Work - Subject Area	Suggested Breakdown of Credits
1	<b>Programme Core (PC I to IV in first two semester)</b>	12
2	<b>Programme Elective( PE I to V in first III semester)</b> Relevant to the chosen specialization/branch; <i>(May be split into Hard (no choice) and Soft (with choice), if required)</i> ;Laboratory work/Mini project/ Project/	15



	Seminar/ Dissertation etc.	
3	<b>Laboratories</b> One for Programme Core and One for Programme Elective	08
4	<b>Research Methodology and IPR</b> This is compulsory in First Semester	02
5	<b>Open Electives (OE)</b> From other programme areas or emerging subject areas. This will be in third semester.	03
6	<b>One Audit Course (AC)</b> In first two semester	
7	<b>Mini project with Seminar</b>	02
8	<b>Dissertation I &amp; II</b>	26
<b>Total Credits</b>		68

**The Minimum Credit Requirement for the M.Tech. Degree is 68**

**A3.2** Open electives offered by any department are courses listed in the course structure under the open elective category and offered to students of any department including the parent department or as specified.

**A3.3** Dissertation shall consist of Dissertation-I in third/fifth semester and Dissertation-II in fourth/sixth semester of M.Tech. FT/PT programme respectively.

**A3.3.1** The Dissertation-I shall be of 10 credits and it shall comprise of at least literature survey and finalization of objectives of study.

**A3.3.2** Dissertation-II shall be of 16 Credits comprising of detailed work.

**A3.3.3** The method of evaluation for the dissertation shall be evolved by pertinent BoS and appropriate grade is awarded which will be considered for SGPA and CGPA calculation.

**A3.4** The curriculum structure of Master of Computer Application Programme shall typically consist of the following components. 10% variation in suggested breakdown in each category is permitted subject to total credits of 125.

Sr. No.	Course Work –Subject Area	Suggested Breakdown of Credits
1	<b>Humanities and Social Sciences (HS), Including Management</b>	10
2	<b>Professional Subjects - Core (PC)</b> Relevant to the chosen specialization/Branch; Laboratory Work/Mini Project/Project/Seminar/Dissertation etc.	114
3	<b>Profession Subjects- Electives(PE)</b> Relevant to the chosen specialization/Branch;	20
	<b>Total Credits</b>	144

### **A3.5 Project/Dissertation rules of MCA**

As suggested by the BoS for MCA Programme

### **A3.6 Lower and Upper Limits for Course Credits to be Registered in a Semester by the Students of**

#### **A3.6.1 M. Tech. FT/MCA Degree Programme:**

- a) A full time student of the M. Tech. degree programme can register for a minimum of 15/18 credits in Semester I/II, with maximum credit limit of 42 at the end of first year. However the minimum /maximum credit limit can be relaxed by the Principal and Dean (Academics) on the recommendations of the BoS only under extremely exceptional circumstances.
- b) A student of the M.C.A. degree programme can register for a minimum of 14 credits in a Semester and up to a maximum of 30 credits per semester. 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.

#### **A3.6.2 M. Tech. Part Time Programmes:**

A Part Time student of the M. Tech. degree programme can register for a minimum of 08 credits per semester up to Semester IV. A student can register for a maximum of 42 credits upto semester IV. Maximum number of credits for which a student can register during a semester may vary from programme to programme based on the recommendations of respective BoS. Moreover the minimum /maximum credit limit can be relaxed by the Principal and Dean (Academics) on the recommendations of the BoS only under extremely exceptional circumstances.

## **A4. DEGREE REQUIREMENTS:**

### **Master of Technology Programmes**

**A4.1** The degree requirements of a student for the M.Tech. programme

are as follows:

- a) Minimum Earned Credit Requirements of all Core Courses, Elective Courses etc. mentioned in the curriculum. Minimum Earned Credit Requirement for Master of Technology Degree is 68.
- b) Satisfactory completion of all Non Credit Mandatory Courses as mentioned in the curriculum (*if any*).
- c) The Maximum duration for a student for complying to the Degree Requirement as per affiliating university rules and UGC/AICTE guidelines. The Full time degree shall be awarded TWO (02) years after the admission and only after fulfilling requirements mentioned in A4.1 (a) and (b). Part Time degree shall be awarded THREE (03) years after the admission and only after fulfilling requirements mentioned in A4.1 (a) and (b).

### **Master of Computer Application Programme**

**A4.2** The degree requirements of a student for the M.C.A. programme are as follows:

- a) Minimum Earned Credit Requirements of all Core Courses, Elective Courses etc. mentioned in the curriculum. Minimum Earned Credit Requirement for Master of Computer Application Degree is 144.
- b) Satisfactory completion of all Non Credit Mandatory Courses as mentioned in the curriculum.
- c) The Maximum duration for a student for complying to the Degree Requirement as per affiliating university rules and UGC/AICTE guidelines. The MCA degree shall be awarded THREE (03) years after the admission and only after fulfilling requirements mentioned in A4.2 (a) and (b).

### **A5. Re-registration**

**A5.1** M. Tech. Full Time student shall be required to reregister for required Courses, under the following circumstances:

<b>Check point</b>	<b>Credit Threshold</b>
End of First year	26
End of Third Semester	52

The student of second year shall be permitted to carry out Dissertation-II during the FOURTH semester; however the examination shall be conducted only when the student earns 52 credits after THIRD semester.

**A5.2** M.Tech. Part Time student shall be required to reregister for required courses, under the following circumstances:

<b>Check point</b>	<b>Credit Threshold</b>
End of Fourth year	26
End of Fifth Semester	52

The student of third year shall be permitted to carry out Dissertation-II during the SIXTH semester, however the examination shall be conducted only when the student earns 52 credits after FIFTH.

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

**A5.2** M.C.A. student shall be required to reregister for required courses, under the following circumstances:

<b>Check point</b>	<b>Credit Threshold</b>
End of First year	28
End of Second year	56

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

**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 programme as per UGC/University rules and regulation

**A7. COMMITTEES / FUNCTIONARIES:**

The following committees shall be constituted specifically for the Post Graduate degree programme:

**A7.1 Board of Studies (BOS-PG):**

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

**A7.2 Departmental Faculty Board (DFB):**

**Constitution:**

Programme Co-ordinator	... Chairman
All faculties	... Members

**Note:**

- There shall be one DFB for every department that is involved in the teaching P.G. 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 the most three outside experts.
- The quorum for each meeting shall be five.

**Functions (Highlights):**

- a) To monitor the conduct of all Post Graduate courses of the department
- b) To ensure academic standard and excellence of the courses offered by the department
- c) To develop/revise the curriculum for Post graduate courses offered by the department, and recommend the same to the BOS
- d) Moderation (only if and when found necessary) in consultation with the Course Co-coordinator, and approval of the finalized grades, before submission to CoE
- e) To consolidate the registration of the student and communicate to Course Co-coordinators, and also to the Dean (Academic).
- f) To conduct performance appraisal of Course coordinators.
- g) To provide feedback of the performance appraisal to the Course Co-coordinator and concerned authorities.
- h) To consider any matter related to the Post Graduate programme of the department.
- i) In cases where a course is taught by more than one faculty member, or by different faculty members for different sections of students, shall co-ordinate (only in case of need) among all such faculty members regarding the teaching and evaluation of such courses.
- j) 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.
- k) 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.

**COURSE STRUCTURE**  
**GOVERNMENT COLLEGE OF ENGINEERING, AURANGABAD**  
(An Autonomous Institute of Government of Maharashtra)

**Department:**

Teaching and Evaluation Scheme for Full Time M.Tech.

**SEMESTER-I**

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week)			Total Credits	Scheme of Evaluation (Marks)					
			L	T	P		Theory			Term Work	Practical/Viva-voce	Total
							CT	TA	ESE			
1		Programme Core I	3	-	-	3	20	20	60	-	-	100
2		Programme Core II	3	-	-	3	20	20	60	-	-	100
3		Programme Elective I	3	-	-	3	20	20	60	-	-	100
4		Programme Elective II	3	-	-	3	20	20	60	-	-	100
5		Research Methodology & IPR	2	-	-	2	20	20	60	-	-	100
6		#Audit Course	2	-	-	-						
7		Laboratory 1 – Based on Core	-	-	4	2				25	25	50
8		Laboratory 1 –Based on Elective	-	-	4	2				25	25	50
		<b>Total Semester I</b>	<b>16</b>		<b>08</b>	<b>18</b>						<b>600</b>

**SEMESTER-II**

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week)			Total Credits	Scheme of Evaluation (Marks)					
			L	T	P		Theory			Term Work	Practical/Viva-voce	Total
							CT	TA	ESE			
1		Programme Core III	3	-	-	3	20	20	60	-	-	100
2		Programme Core IV	3	-	-	3	20	20	60	-	-	100
3		Programme Elective III	3	-	-	3	20	20	60	-	-	100
4		Programme Elective IV	3	-	-	3	20	20	60	-	-	100
5		Programme Elective V	3	-	-	3	20	20	60	-	-	100
6		#Audit Course	2	-	-	-						
7		Laboratory 3 – Based on Core	-	-	4	2				25	25	50
8		Laboratory 4 – Based on Programme Elective	-	-	4	2				25	25	50
9		Mini Project / Seminar	2	-	-	2				50	50	100
		<b>Total Semester II</b>	<b>19</b>		<b>08</b>	<b>21</b>						<b>700</b>

### SEMESTER III

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week)			Total Credits	Scheme of Evaluation (Marks)					
			L	T	P		Theory			Term Work	Practical/Viva-voce	Total
							Test	TA	ESE			
1		Open Elective	3	-	-	3	20	20	60	-	-	100
2		Dissertation I	-	-	20	10				50	50	100
		<b>Total Semester III</b>	<b>3</b>		<b>20</b>	<b>13</b>						<b>200</b>

\*Students going for Industrial Project/Thesis will complete these courses through MOOCs.

### SEMESTER IV

Sr. No.	Course Code	Subject	Scheme of Teaching (Hrs/Week)			Total Credits	Scheme of Evaluation (Marks)					
			L	T	P		Theory			Term Work	Practical/Viva-voce	Total
							Test	TA	ESE			
1		Dissertation II	-	-	32	16				100	150	250
		<b>Total Semester IV</b>	<b>-</b>	<b>-</b>	<b>32</b>	<b>16</b>						250
		<b>Total</b>	<b>38</b>		<b>68</b>	<b>68</b>						<b>1750</b>

#Audit Course to be completed in I/II semester.