

# ORDINANCES

Approved in First Meeting of Board of Management held on 14-3-2014, and  
First, Third & Fourth Academic Council Meetings held on 11-6-2014, 25-4-2015 & 20-11-2015  
and  
*Modified in Subsequent Academic Council Meetings and Board of Management Meetings*



## Master of Technology

*for*

**Students Admitted from Session 2014-2015**

**MADAN MOHAN MALAVIYA  
UNIVERSITY OF TECHNOLOGY  
GORAKHPUR-273010 (UP), INDIA**

# **Madan Mohan Malaviya University of Technology Gorakhpur (UP) - India**

*(Approved in First Meeting of Board of Management held on 14-3-2014  
and modified in subsequent meetings)*

## **First Ordinances**

In pursuance of the provisions of section 31 of The Uttar Pradesh Madan Mohan Malaviya University of Technology Act, 2013, these are the first Ordinances for Madan Mohan Malaviya University of Technology, Gorakhpur:

## **The Uttar Pradesh Madan Mohan Malaviya University of Technology**

### **FIRST ORDINANCES, 2014**

*Short title, commencement and Definitions Sec. 31 (1)*

1. These Ordinances may be called the Madan Mohan Malaviya University of Technology, Gorakhpur. First Ordinances, 2014
2. They shall come into force at once.
3. Anything contained in ordinances, regulations and rules made there under in violation to provisions of Act shall be void and the provisions of Act shall prevail.
4. In these Ordinances, unless the context otherwise requires
  - (a) 'Act' means the Uttar Pradesh Madan Mohan Malaviya University of Technology Act, 2013 as amended from time to time.
  - (b) 'Section' means a section of the Act.
  - (c) 'University' means the Madan Mohan Malaviya University of Technology, Gorakhpur.
5. Words and expression used herein but not defined and defined in the Act shall have the same meaning as assigned to them in the Act.
6. **UNDER SECTION 31-1(a) - The Admission of students, the courses of Study and Fees therefore, the qualifications pertaining to the award of degrees, diploma, certificates and other academic distinctions, the conditions for the grant of fellowships and awards and the like**
  - (a) University may start the other Degree, Diploma, Certificate programmes and other academic distinctions as deemed necessary for fulfilling its objectives and the Ordinances for the same shall be as prescribed by Academic Council and Board of Management.
  - (b) Courses of Study shall be as prescribed by the Academic Council and approved by Board of Management.
  - (c) Fellowships and Awards shall be instituted as per the requirement with the approval of Vice Chancellor under intimation to the Academic Council and Board of Management
  - (d) Ordinances for Bachelor of Technology (B.Tech.), Master of Technology (M.Tech.), Master of Business Administration (M.B.A.), Master of Computer

Applications (M.C.A.) and Doctor of Philosophy (Ph.D.) Degree programmes running in the University at the time of its reconstitution from Madan Mohan Malaviya Engineering College, Gorakhpur are detailed ahead. Ordinances for other programmes as started from time to time shall be as prescribed by the Academic Council and Board of Management.

## **6.2 ORDINANCES FOR M.TECH. PROGRAMME FROM ACADEMIC SESSION 2014-15**

### **6.2.1 ADMISSION**

- 6.2.1.1** University offers full time M.Tech. Degree Programme in various disciplines of engineering and technology.
- 6.2.1.2** Admission to M.Tech. first year in semester I will be made as per the rules prescribed by the University from time to time.
- 6.2.1.3** The reservation shall be governed by U.P. State Government rules or as prescribed by the University.
- 6.2.1.4** Admission on migration of a candidate from any other University to Madan Mohan Malaviya University of Technology is not permitted.
- 6.2.1.5** If, at any time after admission, it is found that a candidate has not fulfilled all the requirements stipulated in the offer of admission or has committed some fraudulent act at any stage then the University reserves the right to revoke the admission of the candidate.

### **6.2.2 ELIGIBILITY FOR ADMISSION**

- 6.2.2.1** Candidates who have passed the Bachelor's degree in Engineering/Technology or equivalent, or as prescribed by the University with first division are eligible for the admission to M.Tech. Programme following the admission process lay down by the University.
- 6.2.2.2** The exact eligibility criteria for admission to the various M.Tech. Programmes shall be as prescribed by the University from time to time and announced at the time of admission.
- 6.2.2.3** Academic Council of the University has the power to repeal and modify the eligibility criteria for admission.

### **6.2.3 CATEGORY OF STUDENTS**

(a) **Regular**

A student in this category works full-time for his/her M.Tech. He/she will be eligible to receive assistantship/scholarship from the University or any other recognized funding agency as per the rules.

(b) **Sponsored**

A student in this category is sponsored by a recognized R&D organization, Academic Institution, Government Organization or Industry for doing M.Tech. in

the University on a full-time basis. The University shall not provide any assistantship/scholarship to such student.

(c) **Foreign Nationals**

Applications received through the **Indian Council of Cultural Relations**, Government of India, are also eligible to apply under the self financing scheme, for which applications shall be invited through their embassies as per the provisions of University.

#### **6.2.4 PROGRAMME DURATION**

- (a) The duration of the M.Tech. Programme for the candidates admitted in semester I will be two academic years (four semesters).
- (b) The duration of each semester will generally be 90 working days or as prescribed by the University from time to time.
- (c) There are two regular semesters in a year. The semester that begins in July (*July to November/December*) is known as the *Odd Semester* and the semester that begins in December/January (*December/January to May*) is known as the *Even Semester*. Academic session may be scheduled in the summer season as well.
- (d) The maximum time allowed for completion of the regular programme for the candidates admitted shall be three years, beyond which the admission of the candidate shall be automatically cancelled.
- (e) The candidate will not be allowed to continue in the subsequent years of the programme, if the sufficient time period is not available for its completion in stipulated maximum duration.
- (f) The student may complete the programme at a slower pace by taking more time but not more than prescribed maximum duration subject to the provisions of **Clause 6.2.10**.

#### **6.2.5. CURRICULUM STRUCTURE OF THE PROGRAMME**

**6.2.5.1** The University follows a specialized credit-based semester system. Every programme will have a specific curriculum for all semesters (semester I to semester IV) with a syllabi consisting of theory, practical, seminar, minor project, dissertation work etc., as given below and shall be in accordance with the prescribed syllabus. The courses shall be covered through lectures, tutorials, laboratory classes, seminar, dissertation etc. as prescribed by the University.

##### **Post Graduate Core Courses (PCC)**

- (i) Maths (M)
- (ii) Programme Core (PC)
- (iii) Dissertation (D)
- (iv) Seminar (S)
- (v) Minor Project (MP)

## Post Graduate Programme Electives (PPE)

Programme Electives (PE)

### Audit Courses

Audit Course (AC)

Every department will prescribe Seminar as credit requirement for the M.Tech. Degree. Seminar is a course wherein under the guidance of a faculty member a student is expected to do an in-depth study in a specialized area by doing survey of published technical literature, understanding different aspects of the selected topic and arriving at a status report. While doing a seminar, the student is expected to critically analyze works of various authors/researchers, learn the investigation methodologies, study concepts, techniques and the results presented in these technical papers, and present a seminar report. It is mandatory to give a seminar presentation of stipulated duration before a panel constituted for the purpose by the department.

Each course is assigned a certain number of credits as follows. Few audit courses shall be offered as per demand and requirement of students.

- (a) 1 credit per lecture hour per week
- (b) 1 credit per tutorial hour per week
- (c) 1 credit per 2 hours laboratory/project/seminar/dissertation per week

**The curriculum for M.Tech. Programme of study has been designed with total minimum credits of 66 and total minimum 6 credits of audit courses for those admitted in 1<sup>st</sup> year of M.Tech. Programme.**

### 6.2.5.2 Overall Credit Structure

Credit Courses			
Postgraduate Core Courses (PCC)		Postgraduate Programme Electives (PPE)	
Category	Min. Credits	Category	Min. Credits
Maths (M)	4	Programme Electives (PE)	16
Programme Core (PC)	22		
Dissertation (D)	18		
Seminar (S)	2		
Minor Project (MP)	4		
<b>Total</b>	<b>50</b>		<b>16</b>
<b>Grand Total</b>	<b>66 (minimum)</b>		
Audit Courses			
Audit Course (AC) (Min. 3 credits audit subject from other department will be offered during semester I to II)			6
<b>Total</b>	<b>6 (minimum)</b>		

Each student has to register for a set of courses as offered by their department in each semester by paying the stipulated fees, which include tuition fee, examination fee, enrolment fee, development fee, insurance fee, degree fee, alumni fee, internet charges, hostel fee, mess advance, miscellaneous user charges etc. as applicable from time to time.

### 6.2.5.3 Other Activities

The other general proficiency activities will include Games/Sports/Cultural/Literary/ Practical/Field Activities/Extension Lectures etc. It will be carried out beyond class hours. The curriculum will also include other curricular, co-curricular activities and extra curricular activities as may be prescribed by the University from time to time. The general proficiency remark shall appear in the Grade Card of the student as per **Clause 6.2.6.2(g)** in each semester.

## 6.2.6 GRADING SYSTEM AND ASSESSMENT PROCEDURE

### 6.2.6.1 Grading System

The academic performance evaluation of a student will be according to a Letter Grading system based on class performance of students. The Letter Grades and the corresponding Grade Points are as follows. Grades falling between A(+) and D in different subject are called pass grades, while the students securing F grade will be treated fail in the subject and shall have to **re-register, or appear in re-major examination or repeat the semester as per provision of clause 6.2.7 & 6.2.10 respectively.** *(Modified in 11<sup>th</sup> meeting of Academic Council and 13<sup>th</sup> meeting of BOM)*

Letter Grade	Grade Points	Description
A(+)	10	Outstanding
A	9	Excellent
B(+)	8	Very Good
B	7	Good
C	6	Average
D	5	Below Average
F	0	Fail
U	-	Short Attendance
W	-	Withdrawal
I	-	Incomplete
AP	-	Audit Pass
AF	-	Audit Fail
S		Satisfactory Completion
Z		Course Continuation

### Grade Award System

Grade	Grade Points	Marks (in %)
A(+)	10	90-100
A	9	80-89
B(+)	8	70-79
B	7	60-69
C	6	50-59
D	5	40-49
F	0	<40

#### 6.2.6.2 Tests & Examinations

*(6.2.6.2 (a) and (b) modified in 8<sup>th</sup> meeting of Academic Council and 13<sup>th</sup> meeting of BOM)*

The theory and practical examinations shall comprise of continuous assessment throughout the semester in all subjects and Major examination conducted by University at the end of the semester (November/December or April/May). The assessment of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain points, will be awarded as per the range of total marks (out of 100) obtained by the candidate, as detailed below. The rounding off shall be done on the higher side.

##### (a) Distribution of Marks for Theory based Subject

S.N.	Assessment Basis		Duration	Marks
1	Continuous Evaluation	Minor Test	2 Hours	30
2		Tutorial/ Assignment/ Quiz/Attendance	-	20
3	Major Examination		3 Hours	50

##### (b) Distribution of Marks for Theory & Practical based Subject

S.N.	Assessment Basis		Duration	Marks
1	Continuous Evaluation	Minor Test	2 Hours	20
2		Tutorial/ Attendance Home Assignment/ Quiz	-	10
3		Practical Work/ Record/Viva Voce		10
4		Practical Examination		10
5	Major Examination		3 Hours	50

**Note:** *The syllabus for Minor Test will be 50% of the total syllabus. However, the Major examination will be conducted from the entire syllabus of the subject in such a way that 20% weightage is given to Unit-I & II and 80% weightage to Unit-III & IV of the syllabus.*

There is no provision of special minor test. It is compulsory for a student to appear in major examination otherwise he/she will be declared fail in that subject. If a student could not pass in a subject he/she may be allowed for re-major examination. There is no minimum marks criterion in continuous evaluation for appearing in re-major examination. *(Modified in 8th meeting of Academic Council and 13th meeting of BOM)*

**(c) Distribution of Marks for Minor Project**

S. N.	Assessment Basis		Duration	Marks
1.	Continuous Evaluation	Mid Term Presentation	-	25
2.		Minor Project Work Report and Attendance	-	25
3.	End Semester Presentation		1 Hour	50

Any student securing less than 40 marks ('F' grade) in minor project shall have to repeat the minor project in the next semester.

**(d) Distribution of Marks for Seminar**

S. N.	Assessment Basis	Marks
1.	Quality of Material	30
2.	Quality of Presentation	30
3.	Quality & Extent of Response of Questions Asked	20
4.	Participation in Other Seminars (Attendance)	20

Any student securing less than 40 marks ('F' grade) in seminar shall have to repeat the seminar in the same semester. This will be limited to only one chance.

**(e) Distribution of Marks for Dissertation**

The dissertation is divided in semester III and semester IV as Dissertation Part-I and Dissertation Part-II respectively. The dissertation may be related to a theoretical, modeling, simulation and analysis, experimental investigation, a proto-type design, product design and development, a new correlation and analysis of data, fabrication and setup of new equipment/experiment etc. preferably useful for the society/industry. A dissertation grade is awarded in both the semesters on the basis of the prescribed evaluation process.

**In semester III**

S. N.	Assessment Basis		Duration	Marks
1.	Continuous Evaluation	Mid Term Presentation	-	30
2.		Literature Survey/Progress Review	-	20
3.	End Semester Presentation (Methodology adopted/Work Plan/Progress)		1 Hour	50

The portion of dissertation work carried out in semester III shall be examined at the end of semester III. The dissertation work will be evaluated by a committee consisting of Head of Department, Dissertation Supervisor(s) and two senior faculty members of department. Any student securing less than 40 marks ('F' grade) shall have to repeat the Dissertation part-I in the next semester.

#### **In semester IV**

The major examination of Dissertation will be held only after the student has secured Pass Grades in all the program core/program electives, seminar, minor project and completed audit subject requirements satisfactorily.

<b>S. N.</b>	<b>Assessment Basis</b>		<b>Duration</b>	<b>Marks</b>
1.	Continuous Evaluation	Mid Term Presentation (Intermediate Results/Innovation in Work)	-	10
2.		Pre-Submission Presentation (Results Obtained/Dissertation Outcome)	-	20
3.		Final Dissertation Report/Attendance (awarded by supervisor)	-	20
4.	Major Examination	Publication of Research Paper(s)*	1Hour	10 (Max.)
5.		Supervisor on the basis of Dissertation Work		10
6.		External Examiner on the basis of Dissertation Evaluation		10
7.		Board of Examiners based on merit of dissertation and viva-voce performance		20

Any student securing less than 40 marks ('F' grade) shall have to repeat the Dissertation Part-II in the next semester.

\*Publication of Research Paper(s) jointly with supervisor in Refereed non-paid Journal/Conferences prescribed by the University from time to time. These marks are to be awarded by the Board of Examiners.

- (i) upto 10 marks for the paper(s) Published/Accepted for publication in Referred non-paid Journal.
- (ii) upto 8 marks for the paper(s) to be considered for possible publication in Referred non-paid Journal i.e. on production of acceptance with revision.
- (iii) upto 5 marks for the paper(s) communicated for possible publication in a Referred non-paid Journal/ Presented or accepted/communicated for possible presentation in a Conference of repute.

**Note:** *In case a student is allowed to work in an Institute/industry other than MMMUT Gorakhpur, a certification from the co-guide of that Institute/industry for the progress of work (satisfactory/unsatisfactory) is required.*

Plagiarism checking is mandatory and will be carried out by the Examination cell for ensuring originality of submitted content of dissertation. After pre-submission presentation, a soft copy of dissertation in word format must be forwarded by supervisor and Head of Department to Examination Cell. The dissertation has to be checked by anti-plagiarism software before loose binding and sending it for evaluation. If any text strings/figures are found to be copied or dubious without proper acknowledgement of the source or the percentage of plagiarism exceeds the approved limit as prescribed by the University from time to time, the dissertation has to be thoroughly revised and resubmitted after presentation in the department.

The Examiners must be of not lower than the rank of Associate Professor of the concerned discipline. The examiners should be a faculty of IITs/NITs/ reputed engineering colleges or Universities/ industrial professionals from concerned discipline/scientists from central and regional labs.

Those who change the dissertation sub-area will be allowed to submit the thesis not before six month from the date of change of area. However, such change is not permissible in semester IV.

The students are encouraged to take the dissertation problem worth patenting.

**(f) Audit Courses**

S. N.	Audit Course Status	Marks Obtained
1.	Audit Pass (AP)	50% and Above
2.	Audit Fail (AF)	Below 50% , Candidate has to repeat the course

**(g) Distribution of Marks for General Proficiency**

General proficiency remark will be based on the cumulative percentages of marks scored by the student during each semester, through various components as detailed below. Detailed distribution for award of marks in each component and/or their weightage may be as prescribed by the University from time to time.

S. N.	Assessment Basis	Weightage of Marks
1.	Discipline/Behaviour of Students Inside/Outside University campus	40%
2.	Games/Sports/Cultural/Literary Events	40%
3.	Academic & Research/Special Lecture/Extra-curricular Events & Industrial Visits	20%

S. N.	Marks Secured	Remark
1.	80-100%	Excellent
2.	60-79%	Very Good
3.	40-59%	Good
4.	20-39%	Satisfactory
5.	<20%	Average

### 6.2.7 RE-REGISTER AND RE-MAJOR EXAMINATION

Students with F grade in any subject. will be required either to re-register in the subject or appear in re-major as per following guidelines:

- (a) If student got F-grade before 2017-18 session (where students are required to score at least 40% of the total marks allocated for continuous evaluation in the concerned subject), he/she will be permitted to give re-major examination along with end semester exams or special re-major exams to be held in June. For the students who secured “F” grade before 2017-18 session and also failed in continuous evaluation (sessionals) of that subject, such students will have to re-register in that subject in the forthcoming semester or during summers if it is arranged by respective HODs.
- (b) For the students who secured “F” grade in any subject from session 2017-18 onwards, will have to re-register in that subject while it is run by the department. Such students will have to attend the classes of that subject on regular basis and appear in the minor and major examination to satisfy all the requirements mentioned in the ordinance for passing the subject. *(Modified in 11<sup>th</sup> meeting of Academic Council and 13<sup>th</sup> meeting of BOM)*

### 6.2.8 DISSERTATION SUPERVISOR

- (a) Dissertation supervisor (s) for a student will be appointed from amongst the faculty members of the University.
- (b) Departments will evolve modalities for appointing supervisors keeping in view of the students’ aspirations and faculty interest.
- (c) Generally, no student will have more than one supervisor from the same department.
- (d) No change in thesis supervisor(s) will be allowed without the valid reasons and consent of Head of Department. However, Head of Department may change/add Supervisor due to administrative reasons any time.
- (e) Generally, no change/addition of Supervisor(s) is/are allowed after the thesis has been submitted for evaluation.
- (f) In case there has been change/addition in the Supervisor(s) due to unavoidable circumstances on the part of student, the dissertation will be submitted not earlier than three months from the date of such change/addition, however, it is not applicable to changes made under **Clause 6.2.8(d)**.

- (g) A student may be allowed to have a co-supervisor from outside the University, in exceptional cases with prior approval of Vice Chancellor.

### 6.2.9 EVALUATION OF PERFORMANCE

The performance of a student will be evaluated in terms of two indices, viz. the Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester, and Cumulative Grade Point Average (CGPA) which is the Grade Point Average for all the completed semesters at any point in time considered cumulatively.

Points Secured in the Semester =  $\sum$  (Course Credits x Grade Point) for courses in which A(+) to D grade has been obtained

Total Credits registered in the Semester Excluding Audit Courses =  $\sum$  (Course credits) for courses in which A(+) to D grade has been obtained

$$\text{SGPA} = \frac{\text{Points secured in the semester in all passed courses (A(+) to D Grade)}}{\text{Total Credits registered in the semester excluding audit courses}}$$

The CGPA is calculated on the basis of all pass grades, except audit courses and courses in which S or Z grade is awarded/secured in all completed semesters.

Cumulative Points secured in all passed courses =  $\sum$  (Course Credits x Grade Point) for courses in which A(+) to D grade is obtained

Cumulative Total Credits excluding Audit Courses =  $\sum$  (Course credits) for courses in which A(+) to D grade is obtained

$$\text{CGPA} = \frac{\text{Cumulative Points secured in all passed courses (A(+) to D Grade)}}{\text{Cumulative Total credits excluding audits courses}}$$

An example of these calculations is given below.

#### ODD Semester

Course No.	Course Credits	Grade Awarded	Total Credits	Grade Point	Points Secured
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
XX101	5	B	5	7	35
XX102	4	C	4	6	24
XX103	4	A(+)	4	10	40
XX104	3	S	-	-	-
XX108 (AC)	3	AP	-	-	-
<b>Total</b>	<b>16</b>		<b>13</b>		<b>99</b>

Credits registered in the semester excluding audit courses (total of column 2) = 16

Total credits earned in the semester excluding audit courses (total of column 4) = 13

Points secured in this semester (total of column 6 for all passed courses) = 99

$$SGPA = \frac{\text{Points secured in the semester in all passed courses (A(+) to D Grade)}}{\text{Total Credits in the semester excluding audit courses}} = \frac{99}{16} = 6.187$$

$$CGPA = \frac{\text{Cumulative Points secured in all passed courses (A(+) to D Grade)}}{\text{Cumulative total credits,excluding audits courses}} = \frac{99}{16} = 6.187$$

Semester performance: SGPA = 6.187

Cumulative performance: CGPA = 6.187

### EVEN Semester

Course No.	Course Credits	Grade Awarded	Total Credits	Grade Point	Points Secured
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
XX151	5	B(+)	5	8	40
XX152	4	A	4	9	36
XX153	4	F	-	0	0
XX154	3	B	3	7	21
XX158 (AC)	3	AF	-	-	-
<b>Total</b>	<b>16</b>		<b>12</b>		<b>97</b>

Credits registered in the semester excluding audit courses (total of column 2) = 16

**Total credits earned in the semester excluding audit courses (total of column 4) = 12**

Points secured in this semester (total of column 6 for all passed courses) = 97

Cumulative points in all passed courses = 99 (past semesters) + 97 (this sem.) = 196

**Cumulative total credits = 16 (past semesters) + 16 (this sem.) = 32**

$$SGPA = \frac{\text{Points secured in the semester in all passed courses (A(+) to D Grade)}}{\text{Total Credits registered in the semester excluding audit courses}} = \frac{97}{16} = 6.062$$

$$CGPA = \frac{\text{Cumulative Points secured in all passed courses (A(+) to D Grade)}}{\text{Cumulative total credits,excluding audits courses}} = \frac{99+97}{16+16} = 6.125$$

Semester performance: Tentative SGPA = 6.062

Cumulative performance: Tentative CGPA = 6.125

When a student gets the grade 'F' in any subject during a semester, the SGPA and the CGPA from that semester onwards will be tentatively calculated [SGPA\* and CGPA\*] taking only 'zero point' for each such 'F' grade. After the 'F' grade(s) has/have been substituted by better grades during a subsequent semester or summer term, the SGPA and the CGPA of all the semesters, starting from the earliest semester in which the 'F' grade has been updated, will be recomputed and recorded to take this change of grade into account.

If the student (as mentioned in above example) registers the failed subject in the Summer Term-20XX and clears it with "B" grade, its grade sheet will be :

### **Summer Term-20XX**

Course No.	Course Credits	Grade Awarded	Total Credits	Grade Point	Points Secured
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
XX153	4	B	4	7	28

The revised grade sheet of even semester will now be recomputed as

## EVEN Semester

Course No.	Course Credits	Grade Awarded	Total Credits	Grade Point	Points Secured
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
XX151	5	B(+)	5	8	40
XX152	4	A	4	9	36
XX153*	4	F/B	4	7	28
XX154	3	B	3	7	21
XX158 (AC)	3	AF	-	-	-
<b>Total</b>	<b>16</b>		<b>12</b>		<b>97</b>

Note: Subject XX153\* is cleared in Summer Term-20XX

Credits registered in the semester excluding audit courses (total of column 2)	= 16
Total credits earned in the semester excluding audit courses (total of column 4)	= 12
Points secured in this semester (total of column 6 for all passed courses)	= 125
Cumulative points in all passed courses = 99 (past semesters) + 125 (this sem.)	= 224
Cumulative total credits registered = 16 (past semesters) + 12 (this sem.)	= 28

$$SGPA = \frac{\text{Points secured in the semester in all passed courses (A(+) to D Grade)}}{\text{Total Credits registered in the semester excluding audit courses}} = \frac{125}{16} = 7.812$$

$$CGPA = \frac{\text{Cumulative Points secured in all passed courses (A(+) to D Grade)}}{\text{Cumulative total credits, excluding audits courses}} = \frac{99+125}{16+16} = 7.000$$

Semester performance: SGPA = 7.812

Cumulative performance: CGPA = 7.000

### 6.2.10 ACADEMIC CRITERIA FOR CONTINUATION

**6.2.10.1** A minimum 5.0 CGPA is required in order to qualify for continuation of registration at any stage and award of the degree at the end of 4<sup>th</sup> semester.

**6.2.10.2** A student must register a minimum of 12 credits in a semester which shall essentially include the prerequisite subject(s). It allows the students to progress at an optimum pace suited to individual ability and convenience, subject to fulfilling minimum requirement for continuation in stipulated duration.

**6.2.10.3** M.Tech Ist Year Students must earn minimum 18 Credits in an academic session in odd and even semester of an academic session for promotion to 2nd Year failing which they have to re-register & repeat complete 1st Year. *(Modified in 10<sup>th</sup> meeting of Academic Council and 13th meeting of BOM)*

**6.2.10.4** A student is considered to pass in a particular subject if he/she secures A(+) to D grade in it. In case of the total marks of a subject is less than 40% in a semester then the student has to repeat the subject completely and continue as per **Clause 6.2.10.2. and 6.2.10.3.** *(Modified in 8th meeting of Academic Council and 13th meeting of BOM)*

### 6.2.11 AWARD OF DIVISION, RANK AND MEDALS

**6.2.11.1** A candidate who satisfies the course requirements for all semesters and who passes all the examinations prescribed for all the four semesters within a

maximum period of two years reckoned from the commencement of the first semester to which the candidate was admitted shall be declared to have qualified for the award of degree subject to the fulfillment of requirements of **Clause 6.2.10.1**. Award of the Division in the degree shall be governed by the provisions given below.

- (a) A candidate who qualifies for the award of the degree securing D or above grades in all subjects pertaining to all semesters in his/her first attempt within four consecutive semesters (two academic years) and in addition secures a CGPA of 7.5 and above for the semesters I to IV shall be declared to have passed the examination in **FIRST DIVISION WITH HONOURS**.
- (b) A candidate who qualifies for the award of the degree by securing D or above grades in all subjects of all the semesters within a maximum period of four semesters, after his/her commencement of study in the 1<sup>st</sup> semester and in addition secures CGPA not less than 6.5 shall be declared to have passed the examination in **FIRST DIVISION**.
- (c) All other candidates who qualify for the award of degree by securing D or above grades in all subjects of all semesters within a maximum period of four semesters after his/her commencement of study in the 1<sup>st</sup> semester shall be declared to have passed the examination in **SECOND DIVISION**.

**6.2.11.2** For the award of **Ranks** for each specialization of study, the CGPA secured in all semesters shall be considered and it is mandatory that such candidates should have passed all the subjects by securing D or above grades in all the semesters in the first attempt in two year duration of programme as applicable. Rank certificates in the form of “Certificate of Merit” would be issued to top three students as 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> rank in each specialization of study on the basis of CGPA in particular academic session.

**6.2.11.3 Vice-Chancellor Gold Medal** will be awarded to the passing out students from each specialization of study identified as prescribed in **Clause 6.2.11.2**, who secures the highest CGPA at the end of IV semester in first attempt i.e. 1<sup>st</sup> Rank holder for each specialization of the M.Tech. Programme.

## **6.2.12 ATTENDANCE**

**6.2.12.1** All students shall be required to sign in attendance register in the department every working day or the mechanism prescribed by the University from time to time. An unauthorized absence for more than one month shall lead to disciplinary action which could be upto termination of studentship.

**6.2.12.2** However, every faculty member handling a course will also record attendance from the scheduled date of commencement of classes upto 3 calendar days before the last instructional day in the semester as per academic calendar. The cumulative percentages of attendance will be recorded in the office of the Dean handling academic affairs of such students of the University. The attendance remark in the grade card will be shown based on the cumulative percentages of attendance calculated for the period between the date of commencement of classes and the last date for recording the attendance in all the registered subjects (credits and audit courses) in the semester as per the following table. Cumulative attendance remark shall appear in the grade card in each semester

<b>S. No.</b>	<b>Attendance</b>	<b>Remark</b>
1.	90-100%	Very Good
2.	80-89%	Good
3.	75-79%	Satisfactory
4.	<75%	Poor

**6.2.12.3** A student is expected to attend all classes, laboratory, seminar, dissertation, minor project and tutorial sessions that are formally scheduled and a formal attendance will be taken in each such session. It is recognized that due to illness and other emergent reasons there may be instances when a student is unable to join the scheduled academic activities; a leave application duly recommended and forwarded by student's the Head of Department should be submitted in such cases at the earliest to office of the Dean of Students Affairs. Such absence can not be more than 25% of the total classes held in a subject which needs to be got condoned as prescribed in **Clause 6.2.12.4.** *(Modified in 10<sup>th</sup> meeting of Academic Council and 13<sup>th</sup> meeting of BOM).*

**6.2.12.4** For the students who have less than 100% but more than 75% total attendance (Lecture, Tutorial & Practical) in a subject if their medical leave is considered for condonation of attendance in that subject then they are eligible for seeking the privilege of upgradation of the cumulative attendance remark. *(Modified in 10<sup>th</sup> meeting of Academic Council and 13<sup>th</sup> meeting of BOM).*

**6.2.12.5** A student, who has a total attendance (Lecture, Tutorial & Practical) lower than 75% in a subject whatever, may be the reason for the shortfall in attendance, will not be permitted to appear in the University Major Examination in that subject. Such candidates will have to repeat that subject in the next semester/ summer term in coming academic session and she/he shall be awarded 'U' in that subject. *(Modified in 10<sup>th</sup> meeting of Academic Council and 13<sup>th</sup> meeting of BOM).*

## **6.2.13 REGISTRATION AND ENROLMENT**

**6.2.13.1** The University follows a specialized credit based semester system, therefore registration at the beginning of each semester on the prescribed dates

announced in the Academic Calendar, is mandatory for every student till she/he completes her/his programme. If a student does not register in a particular semester, her/his studentship is liable to be cancelled. Without registration, any academic activity (course/seminar/dissertation etc.) undergone by a student will not be counted towards the fulfillment of requirements of her/his degree.

**6.2.13.2** Every student admitted shall have his/her unique registration number. The registration number shall have ten digits. First four digits shall indicate year of admission; next two digits shall indicate his/her department/centre of study, next one digit shall indicate his/her level (Undergraduate, Postgraduate and Ph.D.) and last three digits shall indicate his/her serial number/roll number or as prescribed from time to time. Every student shall be identified by this registration number through out his/her stay in the University.

**6.2.13.3** Registration should be carried out by the student himself/herself on stipulated date, but not later than the first week of each semester as late registration upon payment of prescribed late fees as decided from time to time. In any case, registration must be completed before the prescribed last date for registration, failing which he/she will not be registered in that particular session. Such students will have to register in coming next academic session if it is permissible under **Clause 6.2.4** else his/her studentship is liable to be cancelled.

**6.2.13.4** Students having any kind of outstanding dues to the University or hostel shall be permitted to register only after clearing the outstanding dues.

**6.2.13.5** If a student is unable to submit the dissertation by the end of fourth semester, he/she is required to get registered in every semester till the submission of the dissertation. For every onward registration after two years, he/she has to pay the required fee for a semester for which his/her registration is being considered. (*Modified in 8th meeting of Academic Council and 13th meeting of BOM*)

**6.2.13.6** In-absentia registration may be allowed only in rare cases at the discretion of the Vice-Chancellor of the University in case of serious illness/natural calamities/ unavoidable circumstances upon the recommendation of Dean.

#### **6.2.14 UNFAIR MEANS**

Cases of unfair means shall be dealt as per the rules of the University.

#### **6.2.15 GENERAL ELIGIBILITY FOR AWARD OF M. TECH. DEGREE**

A student shall be declared to be eligible for award of the M.Tech. Degree if he/she has

- (a) registered and successfully passed/completed all the required core/elective/audit courses and dissertations and other requirements of programme as prescribed in this Ordinance or as prescribed by the University from time to time;
- (b) successfully acquired the minimum required credits/audits as specified in the curriculum corresponding to the specialization of his/her study within the stipulated time as prescribed in this Ordinance or as prescribed by the University from time to time;
- (c) earned the specified credits in all the categories of subjects;
- (d) has no dues to the University, Hostels, Libraries etc., and
- (e) no disciplinary action is pending against him/her.

#### 6.2.16 POWER TO MODIFY

Notwithstanding all that has been stated above, the Academic Council has the right to modify partly or completely the provisions of above Ordinances with the approval of Board of Management. Under extreme exceptional circumstances arising out of certain inconsistency in the Ordinance or otherwise, the Vice-Chancellor can take suitable decision in deference to the laid down provisions provided standard of evaluation is not compromised and the same shall be reported to ensuing Academic Council/Board of Management with suitable justification. Such actions of Vice-Chancellor shall not be treated as precedence under any circumstances.

#### 6.2.17 CURRICULUM FOR M.TECH. PROGRAMMES

The curriculum for M.Tech. Programmes of study has been designed with total minimum credits of 66 and total minimum 6 credits of audit courses for those admitted in 1<sup>st</sup> year of M.Tech. Programme. A student must register a minimum of 12 credits in each semester.

##### Junior Year, Semester I

S.N.	Category	Paper Code	Subject Name	L	T	P	Credit
1.	M			3	1	0/2	4/5
2.	PC			3	1	2	5
3.	PC			3	1	0/2	4/5
4.	PC			3	1	0	4
5.	AC						
<b>Total</b>				<b>12</b>	<b>4</b>	<b>2/6</b>	<b>17/19</b>

##### Junior Year, Semester II

S.N.	Category	Paper Code	Subject Name	L	T	P	Credit
1.	PC			3	1	2	5
2.	PC			3	1	0/2	4/5
3.	PE1			3	1	0/2	4/5
4.	PE2			3	1	0	4

5.	AC						
			<b>Total</b>	<b>12</b>	<b>4</b>	<b>2/6</b>	<b>17/19</b>

### Senior Year, Semester III

S.N.	Category	Paper Code	Subject Name	L	T	P	Credit
1.	PE3			3	1	0/2	4/5
2.	PE4			3	1	0	4
3.	MP		Minor Project	0	0	8	4
4.	D		Dissertation Part-I	0	0	8	4
			<b>Total</b>	<b>6</b>	<b>2</b>	<b>16/18</b>	<b>16/17</b>

### Senior Year, Semester IV

S.N.	Category	Paper Code	Subject Name	L	T	P	Credit
1.	S		Seminar	0	0	4	2
2.	D		Dissertation Part-II	0	0	28	14
			<b>Total</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>16</b>

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