

**Regulations for 2 years Master of Technology (M. Tech.) Programme
School of Engineering & Technology (SET)
Mizoram University, Aizawl-796 004.**

1. Short Title & Commencement:

These regulations shall be called the Regulations for M.Tech. programme of the School of Engineering Technology (SET), MZU.

2. Under M. Tech. Programmes:

- A) The SET may offer such M.Tech. programmes leading to Master Degrees in Technology in disciplines, as may be approved by the University.
- B) The duration of M.Tech. programmes shall be normally Two (2) years and the maximum duration shall be three (3) years from the date of commencement of the first semester course.
The maximum total duration of the programmes shall include the period of withdrawal, absence and different kinds of leave permissible to a student but it shall exclude the period of rustication. The duration for the M.Tech. programmes may be altered in accordance with the decision of the UGC/AICTE/SET/MZU.

3. Eligibility criteria for admission:

- A) A candidate who has passed B.Tech/M.Sc. or Equivalent Examination in relevant branch from any recognized institute or university having a minimum 55% marks (relaxable by 5% for SC/ST candidates) in aggregate shall be eligible for admission.
- B) A candidate must have a valid GATE score or must qualify Mizoram University Master of Technology Entrance Examination (MZU-MTEE).
- C) Foreign students shall be admitted as per rules of MHRD/UGC/MZU/AICTE.
- D) The selection of the candidates will be based on the GATE score or Mizoram University Master of Technology Entrance Examination (MZU-MTEE) followed by personal interview. Each department shall have separate admission committee.
- E) The list relevant branch in B.Tech/M.Sc. or equivalent examination shall be decided by Departmental BOS subject to the approval of Academic council.

4. Selection Procedure:

- A) The number of seats available for admission to the programme shall be Fifteen (15).
- B) (a) 3 numbers of seats are reserved for sponsored candidates in each specialization in the Department.

(b) 12 numbers the seats in each specialization will be filled-up through GATE score or MZU-MTEE followed by personal interview.

Vacant seats under category (a) above will be filled-up from the waiting list under category (b).

C) Reservation of seats shall be as per University rules.

5. Duration & Programme Structure:

A) The courses shall be of 2 (Two) academic years. Each academic year shall consist of 2 (two) semesters.

B) The programme shall consist of courses as detailed in the syllabus approved by the academic council.

6. Examination:

A) A candidate shall apply for admission to end-semester examination to Dean of School through Head of a department who shall certify that all dues, including examination fee, have been paid.

B) Each subject taken by a student in a semester shall consist of the followings:

i. Sessional examination (Theory and/or Practical)

ii. End-semester examination (Theory and/or Practical)

C) The weightage of marks assigned to sessional work and end semester examination shall be as follows

i. theory paper shall be 2:3.

ii. Practical/project/industrial training shall be 1:1.

D) The evaluation of sessional work shall be made on the basis of student's performance in (a) three (3) sessional tests organized by the department, (b) home assignments/seminars/quizzes/attendance etc. For evaluation of the sessionals, two best performances shall be considered for each student.

E) A candidate may also carry out his/her project work under joint guidance of faculty member (s) of the Department/ other sister Department and a competent person from any industry/academic institution subject to the approval of school level.

F) In order to pass a paper a student must satisfied both conditions

i. obtain a minimum of 50% in sessional and end semester examinations jointly,

ii. obtain minimum of 50% in end semester examination.

G) In order to pass a semester a student shall have to pass with minimum Semester Grade Point Average (SGPA) of 6.0 i.e. Grade D.

H) (i) Any student who failed to attend minimum of 75% of classes in aggregate of a semester shall not be allowed to sit for regular examination and shall not be promoted to next semester. The same semester must be repeated in next concerned semester after re-admission. The student shall have to attend regular classes, internal, practical, end semester examination etc.

- (ii) A student must attend a minimum of 75% classes in each course during a semester to be eligible to appear in the end-semester examination.
- (iii) The Dean of the school may consider and decide, on request from the candidate through the Head of a department, for condonation of shortage of attendance up to 5%. Condonation of any shortage more than 5% and upto 15% may be recommended by the Head of the department & Dean of the School to the Vice-Chancellor with full justification. The decision of the Vice-Chancellor shall be final.
- I) Ordinarily a student should complete the entire programme during the four (4) semesters. However a student may be allowed to participate in the academic programme up to maximum six (6) consecutive semesters.
- J) A student has to earn minimum 14 credits per semester for continuing his/her study. However the student has to earn 36 credits to move from 1st year to 2nd year.
- K) A student may repeat examination of paper(s) in which he/she failed along with regular examinations in the subsequent semester by paying a prescribed fee. Both odd and even semester examination will be conducted during end semester, i.e., in a day there may be two examinations in two different time slot as follows
 - i. Regular (odd/even) semester examination will be conducted in morning session.
 - ii. Repeat examination of other semester (even/odd) will be conducted in afternoon session.
- L) A student satisfying 6-F) to H) will be allowed to sit for the end semester examination on payment of the prescribed fees separately for each semester examination in which the candidate desires to appear.
- M) The duration of end semester examination shall be normally as follows

- Theory paper

Full Mark	Duration of examination
60	3:00 hr

- For laboratory examination duration shall be normally 3 hr
- N) (a) The question paper shall be set ordinarily by course Incharge from concerned department.
- (b) A person to be appointed as paper setter must be normally regular teacher of university
- (c) Head of concerned Department shall submit the course wise list of paper setter (usually course In-charge) to the office of the Controller of Examination for appointment of paper setter latest by 8(eight) week after the commencement of each semester classes.

7. Evaluation:

- (a) Evaluation for each paper shall be done on the basis of performance in continuous sessional assessment and end-semester examination.
- (b) M.Tech. Thesis evaluations committee shall consist of following members
- (i) Head of the Department, Chairman
 - (ii) External Examiner, Member
 - (iii) Supervisor, Member
 - (iv) Dean's nominee, Members
 - (v) One Departmental faculty member nominated by Head of Dept.

Theory subjects:

i) Internal	40%
iii) End Semester Examination:	60%
Total	100%

Practical Subjects:

i) Sessional Work, Regularity:	50%
ii) Practical Examinations:	50%
Total	100%

(Mark Break-up for both practical components: Practical/Job/Demonstration - 60%, Viva Voce-20%, Report-20%)

For Project : (Mark Break-up for both components: Presentation/Demonstration - 70%, Viva Voce- 20%, Report-10%)

8. Grading System:

Based on his/her continuous evaluation, the academic performance of a student during a Semester shall be graded on a Ten (10) point scale as per guidelines given below:

Table 1. Grading of Academic Performance

Marks Range (Out of 100)	Grade	Grade Points	Description
100-90	S	10	Outstanding
89-80	A	09	Excellent
79-70	B	08	Very Good
69-60	C	07	Good
59-50	D	06	Average
< 50	F	00	Fail
---	I	00	Incomplete

The grade awarded to a student shall depend on his/her performance in various examinations, tests, home assignment, laboratory work, drawing and design classes, field work, regularity of attendance, etc.

At the end of the semester, based on the evaluation as per clause 7, a student shall be awarded a letter grade in each subject. For this purpose, there shall be seven (7) grades-the first six (S, A, B, C, D) are the “Passing” grade and the last two (F, I) stands for the “Failure” and “Incomplete” Grades. The Correspondence between the ‘Academic Performance’, ‘Grade’ and ‘Grade Point’ has been given (Vide Table 1). The grade ‘I’ will be awarded to a student in each subject in which he/she fails to appear in the examination of a subject. The Grade ‘I’ shall be deemed to have the same Grade Point as for the Grade ‘F’.

The letter grades awarded to a student in all the subjects shall be converted into semester and cumulative performance index called the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively, to be calculated by the equations 1 and 2 given below.

9. Award of Grades:

The marks list for each subject after the end semester examination and repeat examination shall be prepared by respective coordination committee and shall be sent to the Controller of Examinations under sealed envelope. The marks list will include the marks obtain in sessional and end semester examination/supplementary examination and the total marks.

10. Declaration of Results:

The academic performance of a student at the end of each end-semester examination, shall be awarded a Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) which shall be calculated as,

$$SGPA = \frac{\sum_{i=1}^n c_i g_i}{\sum_{i=1}^n c_i} \quad \text{-----(1)}$$

Where, n = Total number of papers in the semester.
 c_i = Number of credits in the i^{th} paper.
 g_i = Grade points earned in the i^{th} paper.

and

$$CGPA = \frac{\sum_{i=1}^m C_i S_i}{\sum_{i=1}^m C_i} \quad \text{-----(2)}$$

Where, m = Total number of semesters in the programme.
 S_i = SGPA in the i^{th} semester.
 C_i = Total number of credits in the i^{th} semester.

If the comparison of the performance of a student of Mizoram University with those from the other Universities/Institute if required, the following formula for converting CGPA to percentage of marks shall be used:

Equivalent Percentage = $10 \times \text{CGPA} - 5$,
for CGPA up to 9.

Equivalent Percentage = $15 \times \text{CGPA} - 50$,
for CGPA above 9.

11. Classification of result:

On the basis of the CGPA, The result of each student shall be declared as follows:

<u>CGPA</u>	<u>Result</u>
8.00 and above	Passed in <i>First Class With Distinction.</i>
7 and < 8	Passed in <i>First Class</i>
6 and < 7	Passed in <i>Second Class</i>
Below 6.00	<i>Failed</i>

12. Ranking:

A student who has passed the M.Tech. Degree programme shall be ranked on the basis of his/her CGPA of the last or final semester, only if he/she has passed in all of the examinations with all subjects at the first appearance. Consequently certificates will be awarded to the top rank holder by the respective Department.

13. Grade Card:

A) At the end of each semester Examination a *Grade Card* shall be issued to every student which shall contain the following information.

- i. The letter Grade obtained in each subject of the semester.
- ii. SGPA for the respective semester.
- i. CGPA for all semester.

B) Each grade card shall also contain (on the backside):

- i. The Grading of Academic Performance (Table-1)
- ii. The calculation formula of SGPA/CGPA as per clause 10.
- iii. Equivalent Percentage formula as per clause 10

14. Fee Structure:

As prescribed by MZU from time to time.

Proposed fee structure

Candidate	tuition fees (payable per semester)	corpus fee (payable at time of admission)	other admissible fees
Indian students	Rs. 18000/-	Rs.7000/-	as per MZU rules

Full time sponsored Indian students	Rs. 54000/-	Rs.21000/-	as per MZU rules
Foreign Student from SAARC countries	US\$1500	US\$500	as per MZU rules
Foreign Student from Non-SAARC countries	US\$3000	US\$1000	as per MZU rules

In case of student is repeating entire semester due to shortage of attendance or any other reason, he/she has to pay 25% of the semester fees excluding examination fee. In case of student is repeating for first semester the corpus fee may also be excluded.

15. Faculty Adviser:

To help the students in planning their courses of study and for getting general advice on the Academic programme, the concern department will assign a certain number of students to a Faculty member who will be called their Faculty Adviser.

16. Removal of difficulties:

Notwithstanding anything contained in this regulation, any difficulty arising in interpretation of, or giving effect to, any provision of this regulation, shall be referred to the Vice-Chancellor, whose interpretation or decision thereon shall be final.