

**2015 Batch onwards**  
**Regulations for 4 years Bachelor of Technology (B. Tech.) Programme**  
**School of Engineering & Technology (SET)**  
**Mizoram University, Aizawl-796 004.**

*(Under Ordinance OA-8 (Clause 6(c)) and OC-12 (Vide note on p80))*

**1. Short Title & Commencement:**

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

**2. Under B. Tech. Programmes:**

- A) The SET may offer such B.Tech. programmes leading to Bachelor Degrees in Technology in disciplines, as may be approved by the University.
- B) The list of currently run B.Tech. programmes & their respective course structures are given. The structures and Programmes may be amended/modified in accordance with the decisions of the Academic Council.
- C) The duration of B.Tech. programmes shall be normally Four (4) years and the maximum duration shall be Seven (7) 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 B.Tech. programmes may be altered in accordance with the decision of the UGC/AICTE/SET/AC.

**3. Eligibility criteria for admission:**

- A) A candidate who has passed the higher secondary or 10+2 Examination or its equivalent from any recognized board having secured a minimum of 50% marks in aggregate with Physics, Chemistry, and Mathematics (relaxable by 5% for SC/ST candidates) shall be eligible for admission.
- B) A candidate must have a valid Joint Entrance Examination (JEE (Main)) score or must qualify Mizoram University Engineering Entrance Examination (MZU-EEE).
- C) Foreign students shall be admitted as per rules of MHRD/UGC/MZU/AICTE.
- D) A candidate who has acquired a Diploma in Engineering in relevant branch with a minimum of 60% marks (relaxable by 5% for SC/ST candidates) through a minimum of three (3) years of institutional study can be considered to be academically equivalent to a student who has passed the first year of the four (4) years Engineering degree programme. Lateral Entry for such diploma holders will be allowed in the Second year (Third Semester) level, if seats are available.  
The selection of the candidates will be based on the Mizoram University-Lateral Entry Engineering Entrance Examination (MZU-LEEEE).

#### **4. Selection Procedure:**

- A) The number of seats available for admission to the programme shall be Thirty (30) for each branch.
- B) (a) 50% of the seats in each branch will be filled-up through Central Seat Allocation Board (CSAB).  
(b) 50% will be filled-up through MZU-EEE.  
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 4 (four) academic years. Each academic year shall consist of 2 (two) semesters. Each semester shall have a minimum of 90 working days inclusive of semester examination.
- 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 permission to appear in the 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. The weightage for the class written tests shall be 70% and the remaining 30% shall be for written assignments, seminars, quizzes and field reports etc. For evaluation of the sessionals, two best performances shall be considered for each student.
- E) In order to pass a paper a student must satisfied both conditions
  - i. obtain a minimum of 40% in sessional and end semester examinations jointly,
  - ii. obtain minimum of 40% in end semester examination.
- F) In order to pass a semester a student shall have to pass with minimum Semester Grade Point Average (SGPA) of 5.0 i.e. Grade E.
- G) (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.

Example . A student of 3<sup>rd</sup> semester (2012 batch) whose attendance is less than 75% of classes in aggregate of 3<sup>rd</sup> semester shall not be allowed to sit for 3<sup>rd</sup> semester examination and shall not be promoted to 4<sup>th</sup> semester. But, He/she can sit examination for repeat papers of 1<sup>st</sup> and 2<sup>nd</sup> semester if he/she have failed papers. He/She have to re-admit in 3<sup>rd</sup> semester and have to attend regular classes, internal, practical, end semester examination etc. like regular student with junior (2013 batch).

(ii). A student must attend a minimum of 75% classes in each course/paper during a semester to be eligible to appear in the end-semester examination of that course/paper.

(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.

H) Ordinarily a student should complete the entire programme during the eight semesters. However a student may be allowed to participate in the academic programme up to maximum 14 consecutive semesters.

I) 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.

Example, During December end semester examination 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup>, 7<sup>th</sup> semester (Regular) examination will be conducted in morning session and repeat paper examination of 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup> semester examination will be conducted in afternoon session.

J) A student shall not be promoted to subsequent year

i. Unless he/she clear all the papers of previous year

ii. Unless he/she clear minimum 50% of papers in current year

Example. A student studying in 2<sup>nd</sup> year (4<sup>th</sup> semester) has to pass all the papers of 1<sup>st</sup> year and minimum of 50% of 2<sup>nd</sup> year to get promoted to 3<sup>rd</sup> Year (5<sup>th</sup> semester).

- Point (ii) is applicable for first year student for promoting to second year (3<sup>rd</sup> semester)

- Point (i) and (ii) is applicable for 2<sup>nd</sup> and 3<sup>rd</sup> Year.

This clause 6.j (i)&(ii) shall be applicable immediately on declaration of result and student who don't fulfill this clause shall not be allowed to continue .

K) 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.

- L) A student enrolled in B. Tech. Degree program, shall be eligible for change of branch / programme (if seat is available) at the end of part-I (First Year) provided he/she has scored  $YGPA \geq 8.0$ .
- M) The duration of end semester examination for different Full marks are as follows
- Theory paper

Full Mark	Duration of examination
60	3:00 hr
45	2:30 hr
30	2:00 hr

- For laboratory examination duration shall be normally 3 hr
- N) (i) The question paper shall be set ordinarily by course Incharge from concerned department.
- (ii) A person to be appointed as paper setter must be normally regular teacher of university.
- (iii) 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:

Evaluation for each paper shall be done on the basis of performance in continuous sessional assessment and end-semester examination.

##### **Theory subjects:**

i) Internal*	40%
(Periodical Test, Home Assignment/Quizzes/Regularity)	
iii) End Semester Examination:	60%
<b>Total</b>	<b>100%</b>

(\* Mark break-up: Term test -70%, Assignment/Quiz- 20%, Attendance-10%)

##### **Practical Subjects:**

i) Sessional Work, Regularity:	50%
ii) Practical Examinations:	50%
<b>Total</b>	<b>100%</b>

(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**

<b>Marks Range ( %)</b>	<b>Grade</b>	<b>Grade Points</b>	<b>Description</b>
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
49-40	E	05	Marginal
< 40	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 eight (8) grades-the first six (S, A, B, C, D, E) 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<sub>i</sub> =Number of credits in the i<sup>th</sup> paper.  
g<sub>i</sub>=Grade points earned in the i<sup>th</sup> 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<sub>i</sub> =SGPA in the i<sup>th</sup> semester.  
 C<sub>i</sub>=Total number of credits in the i<sup>th</sup> 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 X CGPA-5,  
 for CGPA up to 9.

Equivalent Percentage = 15 X 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:

<b><u>CGPA</u></b>	<b><u>Result</u></b>
8 and above	Passed in <i>First Class With Distinction.</i>
6.50 and < 8	Passed in <i>First Class</i>
5.00 and < 6.50	Passed in <i>Second Class</i>
Below 5.00	<i>Failed</i>

### **12. Ranking:**

A student who has passed the B.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 attempt in first due chance. Consequently merit certificates will be awarded to the top ten rank holders provided the student scored CGPA ≥ 6.5 (first class).

### **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. ( only in Final 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.

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.