

**INTEGRAL UNIVERSITY
LUCKNOW**

ORDINANCES

for

Master of Technology Programmes

1. **Admission**

M. Tech. program will be of two years duration for full time and three years for evening programme respectively. The admission will be carried out in the beginning of the academic year.
2. **Eligibility**
 - 2.1 Candidates who have passed B. Tech. or equivalent examination in the relevant discipline as recognized by the University with a minimum of 55% marks shall be eligible to join the program. Eligibility details for admission to various courses of study are given in Annexure (1)
3. **Duration of Programs**
 - 3.1 M. Tech. Full Time is a regular four semester course and M. Tech. Evening Programme is a six semester programme. Each semester shall be of a minimum period of 90 working days. The courses of study and evaluation schemes will be according to the decisions of Academic Council.
 - 3.2 Maximum duration of a student enrolled in full time course shall be four academic years and in case of M. Tech. evening programme it shall be of five academic years.
 - 3.3 The candidates failing to complete the course within maximum time prescribed in clause 3.2 shall be liable for cancellation of their admission. In such a case the candidate shall have no financial claim on the University.
4. **Registration**
 - 4.1 Each student has to register in every semester of M. Tech. Programme.
5. **Attendance:**
 - 5.1 The attendance of a student shall be reckoned from the date of his/ her registration in the respective course.
 - 5.2 Each student is normally required to attend all the lectures, tutorials, laboratory classes and also the curricular and co-curricular activities. However, a minimum attendance of 75% will be necessary. The dean of concerned faculty may condone the absence, on medical reasons, up to a maximum of 15%.
 - 5.3 A student, who fails to achieve the prescribed minimum attendance as per the provisions of article 5.2 above, shall not be allowed to appear at the End Semester Examinations and, shall be deemed to have been detained.

6. Curriculum and Credit System:

- 6.1 The 2/3 year curriculum has been divided into 4/6 semesters and shall include lectures, tutorials, practical, seminars, dissertation as defined in the scheme of instructions and examinations and executive instructions issued by the University from time to time.

6.2 Credit System

Each M. Tech. Program will have a curriculum in which every course will be assigned certain credits (rounded to the highest integer) reflecting its weight and contact periods per week, as given below:

1 Lecture period (L) per week = 1 Credit

1 Tutorial period (T) per week = 1 Credit

1 Practical period (P) per week = 0.5 Credit

6.3 Minimum Credit Requirements

The minimum credit required for award of a M.Tech. degree is **72**. This is normally divided into theory courses, tutorials, laboratory courses, seminars and dissertation in duration of 4/6 semesters. The credits are distributed semester wise as shown in the structure and syllabus manual of each programme. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester wise schedule of courses given in the syllabus manual of respective programmes.

6.4 Course Categories

The curriculum for each branch will contain courses in the following categories having credits in such a way that the total of all credits will be equal to that required for the award of degree. The categories of courses are:-

(a)DC : Departmental Core

(b)DE : Departmental Elective

(c)OE : Open Elective (subject to department's requirement)

6.5 The Curriculum Structure

The curriculum for each branch will contain a listing of all courses, with each course having a course category, course number, course title, number of contact periods per week, number of credits assigned, and the marks assigned to various components of evaluation

6.6 Approval of the Curriculum

The curriculum for each branch of M. Tech. program will be prepared by the department concerned and will be approved by the Board of Studies of the department. It will then be placed in the Faculty board for approval. Once approved by the Faculty board, it will be

placed in the Academic Council for final approval and then the Curriculum will be implemented. Same procedure shall be used for any modification in the Curriculum.

7. EXAMINATION / ASSESSMENT AND GRADING

7.1 Components of Evaluation

The courses will normally have the following components of evaluation:

(a) Theory courses:	100 marks
Continuous Assessment (CA)	40 marks
End-Semester Examination (ESE)	60 marks
(b) Laboratory courses including Seminar and Dissertation:	100 marks
Continuous Assessment (CA)	60 marks
End-Semester Examination (ESE)	40 marks

7.2 Grading of Performance

7.2.1 Letter Grade and Grade Point Allocation

In every course, based on the combined performance in all assessments in a particular semester as per the curriculum/syllabus, the student is awarded a letter grade. These letter grades not only indicate a qualitative assessment of the learner's performance but also carry a quantitative (numeric) equivalent called the Grade Point. The letter grades and their equivalent grade point applicable for **undergraduate** programmes are given below:

Percentage of Marks Obtained	Letter	Grade Points	Performance
85.00 and above	O	10	Outstanding
80.00 – 84.99	A	9	Excellent
75.00 – 79.99	B	8	Very Good
65.00 – 74.99	C	7	Good
60.00 – 64.99	D	6	Fair
55.00 – 59.99	E	5	Average
41.00 – 54.99	P	4	Pass
Less than 41.00	F	0	Fail

A learner who remains **absent** in any form of **evaluation/examination, letter grade** allocated to him/her should be **AB** and corresponding **grade point** is **zero**. She/he should reappear for the said evaluation/examination in due course.

7.2.2 SGPI/ CGPI Calculation

7.2.2.1 Semester Grade Performance Index (SGPI)

The performance of a learner in a semester is indicated by a number called Semester Grade Performance Index (SGPI). The SGPI is the weighted average of the grade points obtained in all the courses by the learner during the semester. For example, if a learner

passes five courses (Theory/labs./Projects/ Seminar etc.) in a semester with credits C₁, C₂, C₃, C₄ and C₅ and learners grade points in these courses are G₁, G₂, G₃, G₄ and G₅ respectively, then learners' SGPI is equal to:

$$SGPI = (C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5) / (C_1 + C_2 + C_3 + C_4 + C_5)$$

The SGPI is calculated to two decimal places. The SGPI for any semester will take into consideration the “**F** or **AB**” grade awarded in that semester. For example if a learner has failed in course 4, the SGPI will then be computed as:

$$SGPI = (C_1G_1 + C_2G_2 + C_3G_3 + C_4 * \text{Zero} + C_5G_5) / (C_1 + C_2 + C_3 + C_4 + C_5)$$

7.2.2.2 Cumulative Grade Performance Index (CGPI)

An up to date assessment of the overall performance of a learner from the time s/he enrolled the University is obtained by calculating a number called the Cumulative Grade Performance Index (CGPI), in a manner similar to the calculation of SGPI. The CGPI therefore considers all the courses mentioned in the curriculum/syllabus manual, towards the minimum requirement of the degree learner have enrolled for. The CGPI is calculated at the end of every semester to two decimal places and is indicated in semester grade report cards.

The CGPI will reflect the **failed status** in case of **F grade(s)**, till the course(s) is/are **passed**. When the **course(s)** is/are **passed** by obtaining a **pass grade** on subsequent examination(s) the **CGPI** will only reflect the **new grade** and not the **fail grades** earned earlier. Example: Up to semester **r** a learner has registered for **n** courses, among which s/he has “**F**” grade in **ith** course. The semester grade report at the end of semester **r** therefore will contain a CGPI calculated as:

$$CGPI = (C_1G_1 + C_2G_2 + C_3G_3 + \dots + C_i * \text{Zero} + \dots + C_nG_n) / (C_1 + C_2 + C_3 + \dots + C_i + \dots + C_n)$$

Even if a learner has **failed** in a course **more than once**, the course will figure **only once** in the **numerator** as well as the **denominator**. At the end of semester **r+1** s/he has appeared for examination for **k** number of courses including the **ith backlog course** and has cleared all the courses including the **backlog course**, the CGPI at the end of this semester is calculated as,

$$CGPI = (C_1G_1 + C_2G_2 + C_3G_3 + \dots + C_iG_i + \dots + C_nG_n) / (C_1 + C_2 + C_3 + \dots + C_i + \dots + C_n)$$

There will also be a **final CGPI** calculated which considers **all the credits earned** by the learner specified for a particular programme

7.3 Heads of Passing

Continuous Assessment (CA) and End Semester Examination (ESE) should be two separate heads for passing.

7.3.1 Award of Continuous Assessment (CA)

Award of Continuous Assessment (CA) for theory subject, practical and dissertation shall be done as per the provisions in the schemes of examinations. The break-up of CA shall be as follows:

(A) Theory Subjects:

(i) Class Test (two mid-term tests of equal weightage)	-	25 Marks
(ii) Teacher's Assessment		
(a) Tutorial /Assignment /Quizzes	-	10 Marks
(b) Attendance	-	5 Marks

(B) Practicals :

(i) Two mid term viva –voce /tests	-	30 Marks
(ii) Teacher's Assessment		
(a) Lab Record	-	25 Marks
(b) Attendance	-	5 Marks

(C) Seminar

The marks of Seminar shall be awarded on the following basis:

(i) Write-up /Report	-	50%
(ii) Presentation	-	50%

The evaluation of Seminar will be made by a committee constituted by the concerned HOD after obtaining approval of the Dean of the Faculty.

(D) Dissertation:

The marks of Dissertation shall be awarded on the following basis:

(i) 1 st evaluation	25%
(ii) 2 nd evaluation	25%
(iii) Final evaluation	50%

The evaluation of Dissertation will be made by a committee constituted by the concerned HOD after obtaining approval of the Dean of the Faculty.

- Constitution of Evaluation Committee
 - a) Supervisor(s)
 - b) HODs nominee
 - c) Outside the Department
 - d) Outside the University

7.3.2 ESE Head of Passing (ESE)

There will be one examination at the end of the semester to be conducted by University.

7.4 Promotion of Learner and Award of Grades

A learner will be declared **PASS** if,

- She/he secures **at least 50% & 35% marks in each head of passing** mentioned in clause 7.3.

OR

- If she/he **fails in Continuous Assessment** but secures **50% or more in the total (Continuous Assessment + End Semester Examination)** in that course.

7.5 Carry Forward of Marks

In case of a learner who does not fulfill criteria mentioned in section 7.4 and fails in the **Continuous Assessment** and/or **End Semester Examination** in one or more courses:

- A learner who **PASSES** in the **Continuous Assessment** but **FAILS** in the **End Semester Examination** of the course shall reappear for the **End Semester Examination** of that course. However his/her marks of the **Internal Assessment** shall be **carried over** and he/she shall be entitled for grade obtained by him/her on passing.
- A learner who **PASSES** in the **End Semester Examination** but **FAILS** in the **Continuous Assessment** of the course shall **reappear** for the **Continuous Assessment** of that course. However his/her marks of the **End Semester Examination** shall be **carried over** and he/she shall be entitled for grade obtained by him/her on passing.

7.6 Re-examination of Continuous Assessment and End Semester Examination

- ### 7.6.1 Re-examination for Continuous Assessment
- should be completed before the commencement of next semester theory examination.

Example: A learner who is supposed to reappear for Internal Assessment in semester-I course will appear for the re-examination before commencement of End Semester Examination of semester -II. Re-examination of Continuous Assessment will be based on single examination having same marks as of original assessment. A learner who is supposed to reappear for Continuous Assessment will be given some work by the concerned teacher. The work assigned can be of the form of a course project/ assignment problems/ test/ tutorials etc. A learner will do the submission of the assigned work in the predefined period. Records should be maintained properly for all the re-examinations as well as Continuous Assessments.

- ### 7.6.2 Re-examination of End Semester Examination
- will be conducted as per the schedule planned by the University

7.7 Allowed to Keep Terms (ATKT):

M.Tech (Full Time)

1. A learner shall be allowed to keep term for Semester II irrespective of grades obtained in each course of Semester I.
2. A learner shall be allowed to keep term for Semester III if she/he passes each of Semester I and Semester II

OR

She/he fails in not more than **3 heads** of passing of which not more than **2** shall be in End Semester Examinations of Semester I and Semester II taken together.

3. A learner shall be allowed to keep term for Semester IV irrespective of grades obtained in each course of Semester III.

Note: **Grade AB** should be considered as **failed** and treated as one head for deciding **ATKT**

M.Tech (Evening)

1. A learner shall be allowed to keep term for Semester II irrespective of grades obtained in each course of Semester I.
2. A learner shall be allowed to keep term for Semester III if she/he passes each of Semester I and Semester II

OR

She/he fails in not more than 3 heads of passing of which not more than 2 shall be in End Semester Examinations of Semester I and Semester II taken together.

3. A learner shall be allowed to keep term for Semester IV irrespective of grades obtained in each course of Semester III.
4. A learner shall be allowed to keep term for Semester V if she/he passes in all heads of Semester I, Semester II, Semester III and Semester IV

OR

She/he has passed in all heads of Semester I and Semester II and fails in not more than 3 heads of passing of which not more than 2 shall be in End Semester Examinations of Semester III and Semester IV taken together.

5. A learner shall be allowed to keep term for Semester VI irrespective of grades obtained in each course of Semester V.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT

8. Re-admission in the University

A candidate who has failed and has not been promoted to the higher class will have to repeat the whole year as a regular student. He will be allowed for re-admission on payment of prescribed fees provided he/she satisfies one of the following conditions-

- 8.1 A candidate is declared fail.

- 8.2 A candidate did not appear in a semester examination and or he/she was granted permission for not to appear in the examination on his own request.
- 8.3 A candidate has been detained by the University and has also been permitted to take re-admission.
- 8.4 A candidate promoted with carry over subject and he/she opted for re-admission.

9. Result

(a) If a student passes all the examinations and fulfills all the requirements for the award of degree his/her result will be shown as **Passed** mentioning letter Grade obtained by the student.

(b) The division awarded will be based on the CGPI. Numerical percentage will be calculated by the following formula.

$$y = 6.9 * x + 22$$

Where y is percentage & x is CGPI

First of all the CGPI may be multiplied by a factor of 9 to obtain the numerical percentage. The division will be awarded as under:

First Division (Honours)	75% and above
First Division	60% and above
Second Division	Less than 60%

(c) Ranks/Positions will be determined at the end of even semesters. Only those students who fulfill the following conditions will be eligible for ranks/positions:

- (i) They do not have any break in their studies;
- (ii) They have passed every scheduled course in first attempt;
- (iii) They have passed every course on time as per the curriculum;
- (iv) They have earned credits as per the schedule given in the curriculum;
- (v) They have not improved grade in any course after passing the course.

The students who violate any of the above conditions will not be awarded any rank/position. The ranks/positions will be determined on the basis of CGPI

10. Grace Marks:

- 10.1 A candidate may be awarded grace marks up to a maximum of 4 marks in one subject including theory papers, practical, project and seminar in each academic year provided he/she can be declared to have passed the academic year by the award of these marks.
- 10.2 The grace marks shall not be added to the aggregate marks.
- 10.3 No grace marks shall be awarded in carry over / re-back/special back examinations.

11 Scrutiny

- 11.1 Scrutiny shall be allowed in only theory papers for which the candidate has to apply within 7 days after declaration of semester result.
- 11.2 Re-evaluation is not permitted.

12. Cancellation of Admission

The admission of a student at any stage shall be cancelled if:

- (i) He/She is not found qualified as per AICTE/ State Government norms and guidelines or the eligibility criteria prescribed by the University.
- (ii) He/She is found unable to complete the course within the stipulated time as prescribed in clause 3.
- Or
- (iii) He/She is found involved in creating indiscipline in the University.
- Or
- (iv) He/She is found involved in any criminal case/ has given any false statement.
- (v) A candidate admitted in M.Tech Renewable Energy Technology (Full Time) may opt to leave the program after the first two semesters and shall be eligible for the award of Post Graduate Diploma (Renewable Energy Technology) after clearing all the required number of credits specified in study and evaluation scheme for the same

13. Migration from any other University

A student may be able to transfer credits to another programme within the university, or may be able to transfer credit towards a programme in a different institution with which the university has a formal agreement of mutual credit transfer. Credit transfer depends on whether the accumulated credit is relevant to the programme to which the student wants to transfer.

- 14. The academic Council shall have the power to relax or amend any provision provided in the ordinance in any specific matter/ situation subject to the approval of Executive Council of the University.

15. Cancellation of Admission

Admission of a student can be cancelled due to non payment of fees or any act of indiscipline, deemed so or not completing the course in the maximum prescribed duration as mentioned in clause 3.2