

***ORDINANCE – BACHELOR OF TECHNOLOGY (B.Tech.) EXAMINATION**

Notwithstanding anything contained in any other ordinance with regard to the matters hereunder, the course of study for the Degree of Bachelor of Technology in the faculty of Engineering & Technology and the conditions for admission thereto shall be as under:

1. (a) The Bachelor of Technology Degree Course shall extend over a minimum period of four academic years except in the case of Lateral Entry Admissions in which the minimum duration of the course shall be three academic years. Each academic year shall be divided into two semesters. Each semester will be of about 16-18 weeks duration. A candidate will be eligible to be considered for admission to the first semester of this course only if he/she fulfills the following requirements:

- (i) ©The candidates should have passed Senior School Certificate Examination (10+2) or an equivalent examination with atleast five subjects with one of the subjects of English from any recognized Board/University with atleast 45% marks in Physics, Mathematics and one subject of Chemistry/Bio-technology/Biology taken together (40% in the case of reserved category).

However, for admission to B.Tech. (Bio-Technology), the candidates with the subjects of Physics, Chemistry and Biology or Bio-Technology shall be considered if otherwise eligible for this course.

OR

- (ii) ©The candidate should have passed with minimum 45% marks (40% in the case of reserved category) in Diploma in Engg./Tech., **of three years or more duration** from any recognized Board of Technical Education/University or its equivalent Diploma examination.

- 1.(b) Admission on migration to the third Semester may be allowed, in the beginning of the session, to the candidates who are permitted to migrate in this University.

2. Candidates with Diploma of 3 years (after Matric), Diploma of 2-Years (after +2), 2-years Certificate Course (after Matric) Plus Diploma of 2-years or of more duration may be allowed lateral entry at 3rd Semester level of B.Tech. Degree course.

©Such candidates will be considered for admission to the 3rd semester of B.Tech. in any discipline under **Lateral Entry System** only if they have passed Diploma course in any discipline from a recognized Board/University with at least 45% marks (40% in the case of reserved category) in aggregate

OR

Those who have passed B.Sc. degree from a recognized University with at least 45% marks (40% in the case of reserved category) and passed 12th standard with Mathematics as a subject.

Provided that in the case of students belonging to B.Sc. stream, they shall clear the subjects of Engineering Graphics/Engineering Drawings and Engineering Mechanics of the First year Engineering programme as qualifying subjects alongwith the second year subjects. The credits of the qualifying subjects shall not be considered alongwith the second year examination.

3. (a) At the end of each Semester there shall be an examination wherein candidates may be examined in the courses prescribed for that semester. Each Semester Examination shall be designated as First Semester Examination, Second Semester Examination, and Third Semester Examination and so on.

3. (b) The last date(s) by which examination forms must reach the Controller of Examination shall be as notified by the Controller of Examinations.

However, in case of late declaration of result by this University, forms can be submitted without late fee within 25 days of the declaration of result.

4. The first and subsequent semesters examination shall be open to a regular student who:-

(i) has passed the requisite qualifying examination as laid down in Clause 1(a) if he is a candidate for the first semester examination, or, has passed the preceding semester examination if he is a candidate for the second/ third/ fourth/ fifth/ sixth/ seventh/ eighth semester examination, as the case may be. This is, however, subject to Clause 7 below.

(ii) has his name submitted to the Controller of Examinations by the Principal of the College/Institute and produces the following certificates signed by the Principal of the College/Institute:-

(a) of good character;

(b) of having remained on the rolls of the college/institute of this university for the semester preceding the examinations;

(c) of having attended not less than 75% of the total number of lectures delivered in each subject/paper(s). This requirement shall be fulfilled separately for each course of study. The attendance shall be counted up to the date of commencement of preparatory holidays i.e. 10 days before the commencement of the examination.

The Principal of the college/institute is empowered to condone the shortage of attendance up to 10% of the total lectures delivered in each subject/paper(s) in exceptional cases.

Provided that the candidate who has not attended the requisite number of classes for any subject(s) will be eligible to take examination in the remaining subjects. Provided further that a candidate who is deficient in attendance shall have to repeat those courses in which he/she is deficient in the immediate subsequent session.

5. The courses of the study and the subjects of examinations shall be as approved by the Academic Council from time to time. The examination shall consist of:-

(a) **Theory Papers:-** Theory papers to be set by the External/Internal Paper- Setters taken from the panel recommended by the respective board of studies and approved by the Academic Council every year. The Answer books shall be evaluated by the External/Internal Examiner(s).

(b) **Practical Examination:-** Examinations in practical / viva-voce shall be conducted jointly by the External/Internal Examiners taken from the panel recommended by the respective board of studies and approved by the Academic Council.

(c) **Sessional:-** Sessional work to be evaluated by the teachers concerned based on the work done during the semester on the basis of the following weightages:-

I For Theory Subjects:

(i) Class test (Two best of three)	40%
(ii) *Class Attendance (Lecture/Tutorial)	40%
(iii) Class Work	20%

II For Practical/Project Courses:

(i) Viva-Voce/Test	20%
(ii) Laboratory Record	20%
(iii) Class Attendance*	40%
(iv) Class work	20%

*(Marks will be awarded proportionate to the attendance.)

For seminar courses the marks will be awarded by the teacher incharge of the seminar and for comprehensive viva- voce, the marks will be awarded by a committee of three teachers appointed by the Head of the department concerned.

The marks in the sessional work shall be awarded by the teachers concerned and countersigned by the Head of the Institute/College and the same be forwarded to the Controller of Examinations of the University one week before the commencement of examination of the Semester.

6. A candidate not covered under Clause 7 below, whose result is declared late for no fault of his/her, should attend classes of the next higher Semester.

7. If a candidate has after attending the course of studies in the college and being eligible, either not appeared or appeared in any semester Examination and failed in one or more courses for that examination, he/she can appear for such course(s) at subsequent examinations without attending a fresh course of studies for that semester in the college according to syllabus for regular student in force. Such a candidate may, in the meantime, prosecute his/her studies for the next higher semester (s) and appear in the examination(s) for the same along with the examination for the lower semester(s).

Provided that after completion of their studies for the whole duration of the course upto eighth semester, the candidates will be allowed to appear in the examination as an Ex-student for the left out paper(s).

¥ Provided still further that a candidate who fails to pass the B.Tech Examination within a period of **six years (five years)** in respect of candidates admitted under clause 1 (b) or 2 of his/her admission to the course, shall be deemed to be unfit for the Bachelor of Technology course at this University.

8.1 § The minimum pass marks for any Semester Examination shall be:-

- (i) 40% in each written paper.
- (ii) 40% in the aggregate of sessional and examination marks for each theory subject.
- (iii) 40% in each practical examination or viva –voce examination.
- (iv) 40% in aggregate of sessional marks and examination marks for each practical subject.

§ Provided that a candidate, who fails to obtain the requisite marks in aggregate of sessional and examination marks as provided in 8.1 (ii) & 8.1 (iv) above, shall be required to re-appear in the examination in the concerned subject in the subsequent examination (s).

8.2 § The candidate is required to obtain Pass Marks in each of the Theory and Practical papers in aggregate of the external and internal assessment/sessionals subject to obtaining pass marks separately in each paper of external examinations. The internal assessment award of any candidate who fails in one or more papers of any semester examination shall be carried forward to the next examination. He/she will, however, **have the option to improve his/her marks of sessional examinations at the time of appearing in the Reappear Papers.**

9. Candidates shall be examined according to the scheme of examination and syllabus as approved by the Academic Council from time to time. A candidate, who fails in an examination, or having been eligible fails to appear in an examination, shall unless approved otherwise by the competent authority, take the examination according to the syllabus prescribed for regular students appearing for that examination.

10. € A candidate who has passed the B.Tech. examination of this University and is desirous of improving his/her division will be allowed to appear in theory and sessional examinations in a maximum of six papers of 6th to 8th Semesters within one year (the next two Semester examinations) after passing the B.Tech Course. In case he/she fails to improve his/her division, previous result will stand.

11. CREDIT-BASED SYSTEM OF EVALUATION:

Credit - based system followed in the University in order to determine the division & performance of a candidate will be as under:-

i) CREDIT COUNTS:-

All courses would have a credit count and teaching of subjects would be reckoned in terms of Credits. The number of credits of a course shall ordinarily be calculated as under.

- (a) **LECTURES/TUTORIALS:** One Lecture per week shall be assigned One Credit. For one Tutorial period per week, HALF a credit is to be assigned.

- (b) **PRACTICALS:** One lab period per week shall be assigned HALF a credit.
- (c) **SEMINAR/GROUP DISCUSSION:** One Credit each.
- (d) **+MINOR PROJECT:** One project period per week shall be assigned half a Credit.
- (e) **+MAJOR PROJECT:** One project period per week shall be assigned half a Credit..
- (f) The Four credits are fixed for the courses like **FIELD TRAINING, COMPREHENSIVE VIVA-VOCE and GENERAL FITNESS & PROFESSIONAL APTITUDE.**

***GRADING:-**

- i) The Academic Performance of a student shall be graded on a **TEN-POINT SCALE**. The award of Grades based upon marks obtained out of 100 shall be made as follows:

MARKS		GRADE		MARKS
86	≤ and above upto	O	<	100
76	≤ and above upto	A+	<	85
66	≤ and above upto	A	<	75
56	≤ and above upto	B+	<	65
51	≤ and above upto	B	<	55
46	≤ and above upto	C	<	50
40	≤ and above upto	P	<	45
--		F	<	--
--		Ab		--

- ii) Letter grade will be awarded to the candidates. Each letter grade indicates the level of performance in the course and has a grade point for purpose of computing the **Semester Grade Point Average (SGPA) / Cumulative Grade Point Average (CGPA)** as given below:

® Letter Grade	Performance	Grade Point
O	Outstanding	10
A+	Excellent	9
A	Very Good	8
B+	Good	7
B	Above Average	6
C	Average	5
P	Pass	4
F	Fail (required to re-appear in the exam.)	
Ab	Absent	-

SGPA:- indicates the performance of the student in the current semester and is computed as below:

Grade points earned in the current semester/ Total credits in the semester.

CGPA:-

It indicates the performance of a student since his/her entry into the course including the current semester.

CGPA is the weighted average of all the grades awarded to a student since his entry into the University upto and including the latest Semester and computed as follows :-

$$\text{CGPA} = \frac{\sum C_i G_i}{\sum C_i}$$

= Total Grade Points earned since his entry/total credits.

Where C_i denotes credits assigned to the i^{th} course and G_i indicates the grade point equivalent to the letter grade obtained by the candidate in the i^{th} Course.

Provided that in the case of a candidate admitted under Clause 1 (b) and 2 of B.Tech Ordinance, the SGPA (Semester Grade Point Average) obtained by him in third to eight semester examinations only will be taken into account.

iii) The division obtained by each student is classified on the following basis:

Division	C.G.P.A.
First with Distinction	8.0 or more
First	6.75 or more but less than 8.0
Second	Below 6.75

iv) In order to compare the students of this University vis-à-vis other Universities where percentage of marks are shown in the final result, the following conversion formula will be used for calculating the percentage of marks from CGPA.

Percentage of marks obtained by a student = (9.0 x C.G.P.A.)

12. The medium of instruction and examination shall be English.
13. The amount of examination fee to be paid by a regular/re-appear candidate for each semester Examination shall be as prescribed by the University from time to time.
14. At the end of each Semester Examination, the Controller of Examinations shall publish the results, provided that in case where candidate who was permitted to take examination for higher Semester under Clause 7 above has not cleared the lower Semester Examination, his/her result for the higher Semester examination will be declared provisionally.
15. Notwithstanding the integrated nature of this course which is spread over more than one academic year, the Ordinance in force at the time a student joins the course shall hold good only for the examination held during or at the end of that academic year and nothing in this ordinance shall be deemed to debar the University from amending the Ordinance and the amended Ordinance, if any, shall apply to all students whether old or new.

* **Approved vide AC Res. No. 5 (12) dated 30-03-09 and BOM Res. No. 4 (12) dated 13-04-09.**

** **Amended vide AC Res No. 19 dated 29-11-2010 & BOM Res No. 5 dated 19-2-2011 (w.e.f. the session 2010-11)**

§ **Amended vide AC Res. No. 10 dated 22-3-2012 and BOM Res No. 8 dated 14-5-2012 (applicable from the Acad. Session 2011-12.)**

€ **Amended vide AC Res. No. 4 dated 22-3-2012 and BOM Res. No. 4 dated 14-5-2012 (w.e.f. the Exam. held in May/June 2011)**

+ **Amended vide AC Res No. 9 dated 5-4-2010 & BOM Res No. 5 dated 13-4-2010 (w.e.f. the examination of Dec 2009)**

© **Amended vide AC Res No. 3 dated 8-5-2014 & BOM vide Res No. 5 dated 6-6-2014 (w.e.f. the examination of Dec 2009)**

® **Approved vide AC Res. No. 14 and BOM Res. No. 8 dated 17-7-2015**

¥ Amended vide AC Res. No. 9 dated 26-6-2017 and BOM Res. 6 dated 6-7-2017.