

**Rules and Regulations Relating to Degree of  
Bachelor of Technology (B. Tech.)**  
(Chemical Engg./Plastic Tech./Food Tech /Paint Tech.  
/Oil, fats & waxes Tech.)

**(To Be Introduced from Academic Year, 2018-19)**

Degree Course (Modified) with Effect from Academic Year 2018-19

(These rules and regulations will supersede earlier rules and regulations)

**Preamble:**

The present education needs to improve its international competitiveness and the employability of its student community. In this age of information technology, the education paradigm is shifting from teaching to learning and the role of teacher is a facilitator. The focus of education should be student centred and thrust should be on learning by the students than teaching by the faculty. The contact hours should be optimized so that student can approach to library, use Internet and take up self-study to improve his / her skills.

This curriculum structure has been framed by considering guidelines of All India Council for Technical Education (AICTE), which suggests appropriate importance of basic courses, core courses and interdisciplinary / elective courses to fulfil the varied needs of the industry.

**Features of the CGPA system:**

1) The degree course B. Tech. being run under the faculty of Science and Technology with **41** credits for 1st year of the degree course. There are total **160** credits allotted for 4-year B.Tech. degree course.

**Note:** For lateral entry admitted students, total No. of credits allotted are **119**.

2) The credits shall be awarded as follows except for some special subjects:

- 1 credit for 1-hour theory lecture/tutorial
- ½ credit for 1-hour practical.

3) The batch size for Project shall be of 2 to 4 students.

4) The curriculum shall have credit, non-credit and audit courses. However, audit and non-credit courses, shall not be considered in calculation of final SGPA and CGPA.

Course Title: Bachelor of Technology

Abbreviation: B. Tech.

Type of Course: A four-year degree course divided into eight semesters with two semesters per year.

Pattern: Semester

### Nomenclature of Semesters:

The revised Rules, Regulations and Syllabus for four-year degree courses shall be introduced gradually as follows:

Sr. No.	Year	Abbreviation	Semester	With effect from
1	First Year	B. Tech. FY	I & II	2018-19
2	Second Year	B. Tech. SY	III & IV	2019-20
3	Third Year	B. Tech. TY	V & VI	2020-21
4	Final Year	B. Tech. Final	VII & VIII	2021-22

Award of the Degree: Degree shall be awarded to students earning credits of all eight semesters (Minimum 160 Credits)

**Note:** For lateral entry admission, minimum number of credits shall be 119.

**Duration of Semester:** Each Semester shall be normally of 14 To 16 weeks duration for class room teaching / laboratory work.

### Definitions:

- **University:** Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- **Institute:** University Institute of Chemical Technology, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
- **State Government:** Government of Maharashtra.
- **Admission Authority:** Any authority to conduct admission process as prescribed by Government of Maharashtra.
- **DTE:** Directorate of Technical Education, Maharashtra State.

**Rule 1:** B. Tech. Entry level into the course, eligibility criteria, admission authority and procedures

Entry level into the course shall be at the beginning of the Semester - I (after HSC) or at the beginning of the Semester – III (for lateral entry).

Admission authority shall be Government of Maharashtra / Directorate of Technical Education and Eligibility criteria and procedure shall be as per directions of admission authority prevailing at the time of admission.

**Rule 2:** B. Tech. Examinations

**Rule 2.1:** The Examination conducting authority shall be KBC North Maharashtra University, Jalgaon.

**Rule 2.2:** The examination at the end of each semester shall be normally held in November / December and April / May in each academic year.

**Rule 3:** Attendance Rule and Detention Rule

**Rule 3.1:** The attendance rules will be governed by DTE rules and relevant ordinance of university as applicable at that time.

**Rule 3.2:** If a candidate is detained in first term of any year, he / she will not be allowed to register for second term. He / she will have to register for the same in succeeding year(s).

If a candidate is detained in second term of any year, he / she will have to register for the second term of succeeding year(s).

**Rule 4:** Passing Criteria for Theory & Practical Course  
(Examination shall be of 60:40 pattern (University Assessment (External) - 60% & College Assessment (Internal) - 40%)

**Rule 4.1:** For the end semester examination (ESE) in Theory courses, minimum passing marks are 40 %. In case of practical, project and seminar, student must also secure minimum 40 % marks.

**Rule 4.2:** To ensure uniform attention of the students throughout each semester of their study, two internal examinations (IE) *i.e.* class tests, assignments for each subject shall be conducted in each semester by the institute. For the IE in Theory courses, minimum passing marks are 40%. In case of practical, project and seminar, student must secure minimum 40 % marks wherever applicable.

**Rule 5:** Eligibility Criteria for Admission in Next Year

**Rule 5.1** Student must complete minimum credits as follows in respective years.

B.Tech. (Chemical Engg.)	Total Credits	Minimum credits
FY	41	27
SY	41.5	28
TY	44.5	30

B.Tech. (Plastic Tech./Food Tech./Paint Tech. /Oil, Fats & Waxes Tech.)	Total Credits	Minimum credits
FY	41	27
SY	47	31
TY	38.5	26

**Rule 5.2:** The student shall be admitted in TY provided he / she has earned all credits of FY and minimum credits of SY.

The student shall be admitted in final year provided he / she has earned all credits of SY and minimum credits of TY.

**Rules 5.3:** If a student secures 'F' grade in any course, his/her SGPA and CGPA shall not be declared till he /she earns the credits of that course.

**Rule 6: Calculation of SGPA and CGPA**

Conversion table for subject wise marks obtained out of hundred and grades

Sr.No.	Marks Range in %	Grade	Grade Point
1	≥ 90	A+	10
2	80-89	A	9
3	70-79	B	8
4	60-69	C	7
5	50-59	D	6
6	40-49	E	5
7	Less than 40	F	0

Formula for weighted % SGPA & CGPA

$$1) \text{ Weighted \% (WP)} = \frac{\sum_{i=1}^n C_i P_i}{\sum_{i=1}^n C_i}$$

$$2) \text{ SGPA} = \frac{\sum_{i=1}^k C_i g_i}{\sum_{i=1}^k C_i}$$

$$3) \text{ CGPA} = \frac{\sum_{i=1}^n C_i g_i}{\sum_{i=1}^n C_i}$$

Where,

$C_i$  : Number of credits of the  $i$ th paper

$n$ : Total number of papers

$P_i$  : Marks obtained (out of 100) in the  $i$ th paper

$g_i$  : Grade points earned in the  $i$ th paper

$K$  : Number of papers in the semester.

**Rule 7: CGPA Improvement**

A student shall be allowed to improve his / her CGPA by reappearing for the theory courses from VII and / or VIII Semesters of B. Tech. as per prevalent policy of the university.

**Rule 8: Audit/Non-credit Courses**

In addition to academic credits, student should complete audit / Non-credit courses. The following courses shall be completed.

- Induction Programme
- Environmental Studies
- Constitution of India
- Essence of Indian Traditional Knowledge

**Note:** For lateral entry students 'Induction Programme' is excluded

**Rule 8.1:** Environmental Studies Audit Course

It is compulsory to complete Environmental Studies audit course for all admitted students. ESE for Environmental Studies shall be conducted as per the prevalent rules of the university. There shall be 6 audit points for the Environmental Studies audit course/non-credit.

**Rule 8.2:** Co-curricular / Extra-curricular Activity

Students are expected to get involved in co-curricular and extra-curricular activities (for ex. Technical conferences, paper presentation, workshop, courses other than curriculum, professional society membership, any foreign language course, sports, cultural programme, NSS, tree plantation, blood donation etc.) during four years of degree course for their holistic development.

**Rule 9:** Credit Groups

The syllabus of all branches shall be divided into 8 groups with credit distribution as given in the following table:

Sr. No.	Category	Group Code	Number of Credits
01	Humanities and Social Sciences including Management courses	A	09.0
02	Basic Science courses	B	28.5
03	Engineering Science courses including workshop, drawing, basic of electrical/mechanical/computer etc.	C	22.0
04	Professional core courses	D	73.5
05	Professional elective courses relevant to chosen specialization/branch	E	06.0
06	Open subjects- Electives from other technical and / or emerging subject	F	06.0
07	Project work, seminar and intership in industry or elsewhere	G	15.0
08	Mandatory Courses (Environmental Studies, Induction Program, Indian Constitution, Essence of Indian Traditional Knowledge)	H	(Non-credit)
<b>Total</b>			<b>160</b>

