

Rashtrasant Tukadoji Maharaj Nagpur University

Direction No. 14 of 2013

Direction issued under section 14(8) of the Maharashtra Universities Act, 1994, relating to B.Tech. III & IV Semester for the award of Degree of Bachelor of Technology in Chemical Engineering, Chemical Technology and Biotechnology Full Time in the Faculty of Engineering and Technology.

Whereas, the Maharashtra Universities Act No. XXXV of 1994 has come into force with effect from 22nd July, 1994

AND

Whereas, the amendment to the said Act came to be effected from 12th May, 2000

AND

Whereas, the Board of Studies in General Engineering, Chemical Engineering, Chemical Technology and Biotechnology in the Faculty of Engineering and Technology have decided to make amendment related to 3rd& 4th Semester B.Tech. in Credit Based Semester Pattern for award of degree of Bachelor of Technology in Chemical Engineering, Chemical Technology and Biotechnology Full time in the Faculty of Engineering and Technology.

AND

Whereas, the Faculty of Engineering and Technology in its meeting held on 30 April 2013 has considered and approved the III & IV Semester Credit Based Scheme of Examination, Syllabus and Absorption Scheme with the recommendations of the Board of Studies in General Engineering, Chemical Engineering, Chemical Technology and Biotechnology in the Faculty of Engineering and Technology for its implementation from the academic session 2013-14 and onwards.

AND

Whereas, the recommendations made by the Board of Studies in General Engineering, Chemical Engineering, Chemical Technology and Biotechnology

as approved by the Vice Chancellor pertains to Examination leading to the B.Tech. (Semester-III and Semester-IV) for award of degree of Bachelor of Technology in Chemical Engineering, Chemical Technology and Biotechnology in the Faculty of Engineering and Technology.

AND

Whereas, it is expedient to provide an Ordinance for the purposes of describing examination in the Credit Based semester pattern leading to the Third and Fourth Semester for the award of Degree of Bachelor of Technology in Chemical Engineering, Chemical Technology and Biotechnology in the Faculty of Engineering and Technology, indicating there in the syllabus and scheme of examination including absorption scheme and C.G.P.A and S.G.P.A.

AND

Now, therefore, I Dr. V. S. Sapkal, Vice Chancellor of RashtrasantTukadojiMaharaj Nagpur University, Nagpur in exercise of powers vested in me under section 14(8) of the Maharashtra Universities Act, 1994, do hereby issued the following Direction pertaining to the amendment as made for Semester-III and Semester-IV for award of Bachelor of Technology in Chemical Engineering, Chemical Technology and Biotechnology in the Faculty of Engineering and Technology.

1. This Direction shall be called "Direction regarding Credit Based Semester Pattern Scheme and Examination leading to B.Tech. Semester-III and Semester – IV to the Degree of Bachelor of Technology in Chemical Engineering, Chemical Technology and Biotechnology in the Faculty of Engineering and Technology RashtrasantTukadojiMaharaj Nagpur University, Nagpur.
2. Subject to the compliance with the provisions of this Direction and any other Ordinance which is in force from time to time shall be applicable

3. The Credit Based Scheme of Examination & Absorption Scheme Appendix for Semester-III and Semester-IV shall be as detailed in the following Table-1

TABLE-1

Sr. No.	B.Tech. (Branch)	Board of Studies	Credit Based Scheme of Examinations & Absorption Scheme Appendix
1.	Chemical Engineering	Chemical Engineering	A
2.	Chemical Technology	Chemical Technology	B
3.	Biotechnology	Biotechnology	C

The A.T.K.T. Rules shall be as given in Table – 2, given below:

TABLE – 2

Admission to Semester	Candidate should have passed in all subject heads of following examination of the university	Candidate should have passed in all subject heads except in 1/3 passing subject heads of the following examination taken together
I	As per eligibility	---
II	----	---
III	----	I and II Semester
IV	----	I and II Semester
V	I and II Semester	III and IV Semester
VI	I and II Semester	- do -
VII	III and IV Semester	V and VI Semester
VIII	- do -	- do -

4. Students falling under old scheme shall be provided maximum five attempts to clear the subject(s), after which they shall be absorbed in the new scheme.

Whereas, any student willing to opt for New Credit Based Semester Scheme shall be absorbed as per the appendices mentioned in **Table-1** at equivalent Credit Based Semester Scheme level. However, student will have to appear for the examinations under Credit Based Semester Scheme for the subjects in which student has not cleared the subject in Semester Pattern Scheme

5. (i) The Scope of subject shall be as indicated in the syllabus.
(ii) The medium of instruction and examination shall be English.
6. The provisions of Ordinance No. 3 of 2007 relating to the award of grace marks for passing an examination or for securing higher division/class and for securing distinction in subject(s) as updated from time to time shall apply to the examination under this ordinance.
7. An Examinee who does not pass or who fails to present himself/herself for the examination(s) shall be eligible for **reappearing** in the same examination on payment of a fresh fee and assuch other fees as may be prescribed from time to time. However, **readmission** to semester should be allowed only when a regular session is running for a particular semester.
8. The computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) of an examinee shall be implemented progressively as from the academic session 2013-14 onwards.
The marks will be allotted in all examinations which will also include college assessment marks. The total marks for each Theory/Practical subject head shall be converted into Grade points as per **Table- 3**.
SGPA shall be calculated based on Grade Points earned corresponding to percentage of marks as given in **Table -3** and the Credits allotted to respective Theory/Practical subject head shown in the scheme of examination for respective semester.
9. SGPA shall be computed for every semester and CGPA shall be computed only in VIII semester. The CGPA of VIII semester shall be calculated basedon**SGPA** of V to VIII semester as per following computation:-

$$SGPA = \frac{\sum_{i=1}^m C_i \cdot G_i}{\sum_{i=1}^m C_i} = \frac{C_1 \cdot G_1 + C_2 \cdot G_2 + \dots + C_m \cdot G_m}{C_1 + C_2 + \dots + C_m}$$

Where, m = Number of subject heads in a given Semester.

$$CGPA = \frac{\sum_{j=1}^n C_j \cdot G_j}{\sum_{j=1}^n C_j} = \frac{C_1 \cdot G_1 + C_2 \cdot G_2 + \dots + C_n \cdot G_n}{C_1 + C_2 + \dots + C_n}$$

Where, n = Number of subject heads from V to VIII Semester taken together.

C_i or C_j = Credit of individual subject head (Theory/Practical).

G_i or G_j = Grade Point earned in individual subject head (Theory/practical).

10. CGPA equal to 6.75 and above shall be considered as equivalent to First Division and CGPA equal to 8.25 and above shall be considered as equivalent to Distinction on Grade Card of VIII Semester as a foot note. Equivalent percentage calculation will be based on the following formula:

$$\text{Equivalent \%} = (\text{CGPA} - 0.75) \times 10$$

TABLE-3

THEORY			PRACTICAL		
Grade	Percentage of Marks	Grade Points	Grade	Percentage of Marks	Grade Points
AA	80 ≤ Marks ≤ 100	10	AA	85 ≤ Marks ≤ 100	10
AB	70 ≤ Marks < 80	9	AB	80 ≤ Marks < 85	9
BB	60 ≤ Marks < 70	8	BB	75 ≤ Marks < 80	8
BC	55 ≤ Marks < 60	7	BC	70 ≤ Marks < 75	7
CC	50 ≤ Marks < 55	6	CC	65 ≤ Marks < 70	6
CD	45 ≤ Marks < 50	5	CD	60 ≤ Marks < 65	5
DD	40 ≤ Marks < 45	4	DD	50 ≤ Marks < 60	4
FF	00 ≤ Marks < 40	0	FF	00 ≤ Marks < 50	0
ZZ	Absent in Examination	-	ZZ	Absent in Examination	-

11. As Soon as possible, after the examination, the Board of Examinations shall publish a list of successful examinees and the Degree shall be awarded based on V to VIII Semester SGPA and CGPA calculated thereon.
12. I, further directed that the aforesaid Direction shall come into force from the date of issuance and shall remain in force till the relevant Ordinance comes into being in accordance with the provisions of Maharashtra Universities Act, 1994 and the relevant provisions published by this Direction shall be physically repealed from the existing Ordinance.

Sd/-
(Dr. V. S. Sapkal)
Vice Chancellor

Nagpur