

# **RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL**

Established under Act No. 13 of 1998

## **Ordinance No.4 (D)**

(Section 40 (1))

### **Ordinance for Bachelor of Technology 4 year Degree course**

**(For the Candidates admitted in 1<sup>st</sup> year on and after July, 2022)**

**(Under NEP 2020 )**

- 1.0** The first degree in Technology of four-year (eight semester) course, hereinafter called 4-YDC, shall be designated as **BACHELOR OF TECHNOLOGY**, in respective Branch.
- 1.1** The studies and examinations of Bachelor of Technology courses (Approved by All India Council for Technical Education, New Delhi) shall be on the basis of Marks-Cum-Credit system but semester wise and final evaluation shall be by credit based grading system.
- 1.2** This Ordinance shall also be applicable to 4-Year Part-time B.Tech. Course, which are approved by the State Government of Madhya Pradesh and AICTE.

## **2.0 ADMISSIONS**

- 2.1** Minimum qualification for admission into Bachelor of Technology course shall be as per the prevalent norms of the State Government of Madhya Pradesh/AICTE/UGC for the course of Bachelor of Technology course.
- 2.2** Minimum qualification for direct admission to second year Bachelor of Technology Course termed as Lateral Entry shall be as per the prevalent norms of the Government of Madhya Pradesh/AICTE.
- 2.3** The admission to B.Tech. course shall be governed by the rules of the technical education and training department government of Madhya Pradesh Bhopal and/or any other competent authority appointed by the state of the Government of Madhya, for this purpose.

## **3.0 STRUCTURE of BACHELOR OF TECHNOLOGY(B.Tech.) PROGRAMME**

- 3.1** The total credits for the award of B.Tech. degree in any branch shall lie between 160-200.
- 3.2** The medium of instruction and examination shall normally be English throughout the course of study. However, a student can opt for writing the examination in Hindi provided that the student applies for the same at the start of the program. A student shall not be allowed to change the medium of examination during the duration of the course.
- 3.3** Minimum credits required to earn B.Tech. Degree in particular branch shall be decided by the concerned Board of studies (BOS).

3.4 The subjects to be studied in different semester of Bachelor of Technology course shall be as per the Schemes and Syllabus, approved by Board of Studies.

3.5 A candidate shall be permitted to earn additional credits in self learning mode through Massive Open Online Course (MOOCs). If a candidate earns 20 more credits than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, then he/she shall be eligible of Degree with Honours or additional Minor Engineering, in the same programme.

3.6 A list containing permitted courses for MOOCs along with their credits shall be prescribed by the respective BOS and shall be notified by the University from time to time.

3.7 There shall be one University Examination at the end of each semester. These examinations will be designated as follows:

- (a) During First Year
  - First Semester B.Tech., Exam and Second Semester B.Tech., Exam
- (b) During Second Year
  - Third semester B.Tech. Exam and Fourth semester B.Tech. Exam
- (c) During Third Year
  - Fifth semester B.Tech. Exam and Sixth semester B.Tech. Exam
- (d) During fourth Year
  - Seventh semester B.Tech. Exam and Eighth semester B.Tech. Exam

3.8 The semester examination will generally be held in November-December and April-May in each year.

3.9 Candidates appearing as regular students for any semester examination are required to attend minimum of 75 percent of the lectures delivered and the practical classes held separately in each subject of the course of study, provided that a short fall in attendance upto 10% and a further 5% can be condoned by the principal of the college and Vice-Chancellor of the University, respectively for satisfactory reasons.

3.10 There will be a full examination at the end of each semester consisting of end semester examination of theory and practical subjects. The duration of examination period should not normally exceed 20 working days.

#### **4.0 PROMOTION TO HIGHER SEMESTER AND YEAR**

A candidate who has been admitted in the Technology course will be promoted to the higher year/semester in accordance with the following rules:

4.1 (a) A candidate who has taken admission in A-B Group and has appeared in the examination of odd semester of a particular year, shall

automatically be promoted to even semester of that year irrespective of failing in any number of subjects of previous semester.

(b) A candidate who has taken admission in the even semester under B-A Group and has appeared in the examination of even semester, shall automatically be promoted to next applicable odd semester of that year, irrespective of failing in any number of subjects of previous semester.

**Note:** The candidate who seeks admission in a new year of the course, in an odd semester of that year is said to be in A-B group, while, a candidate who seeks admission, in a new year of the course in even semester of that year is said to be in B-A group. i.e. a Candidate of A-B Group will take admission generally in July; whereas, candidate of B-A Group will take admission generally in January in the relevant academic year.

- 4.2 For the award of degree minimum Cumulative Grade Point Average (CGPA) required is 5.0.
- 4.3 To pass a particular subject of the course the minimum required grade is D. However, the candidate should also separately score minimum of grade D in end semester examinations of theory and practical parts of the subject. For practical end semester examinations one external examiner from out side the institute shall always be there.
- 4.4 A candidate who fails to score minimum of grade D in more than five subjects (Theory and Practical of the same subject shall be treated as two different subjects) in a particular year, shall not be admitted to the next higher year. However, non-credit subjects shall not be included in this count.
- 4.5 Further, a candidate shall not be admitted in the fifth or higher semester classes unless he/she has fully passed the first year examination with minimum of CGPA of 5.0. Likewise a candidate shall not be admitted in seventh or higher semester classes unless he/she has fully passed first and second year examinations with minimum CGPA of 5.0. However, non-credit subjects shall not be included for the promotion to higher semester/s.
- 4.6 If a candidate has passed all the subjects of an applicable year but has failed to score a minimum CGPA of 5.0 as per the requirement of rule 4.2 and 4.5 above, such a candidate shall be permitted to improve requisite grade point by reappearing in maximum of three theory /practical subjects, in the ensuing examination (theory and practical of a subject shall be treated as separate subjects.). In the selected subjects the Candidate may reappear either in end semester examination/mid semester examination or in both.
- 4.7 Other than the provision of rule 4.6 above, a candidate shall not be permitted to reappear in that examination, for improvement of division/marks.

## **5.0 AWARD OF CREDITS AND GRADES**

5.1 Each subject, along with its weightage in terms of units and equivalent credits, shall be recommended by the concerned Board of Studies and shall be approved by the standing committee of Academic Council and the Executive Council. Only approved courses can be offered during any semester.

5.2 A student shall be continuously evaluated for his / her academic performance in a subject through tutorial work, practicals/labwork, assignments. mid-semester test, field work/ seminars(if required) quizzes, regularity and end-semester examination, as proposed by respective Board of Studies and approved by standing committee of Academic Council and Executive Council of the University.

5.3 The distribution of weightage /marks for each component shall be decided by the respective of Board of Studies and approved by standing committee of Academic Council and Executive Council of the University subject to such stipulation as given under:

**(a) Theory Block**

i.	Quizzes, assignments tutorials, and regularity	10%
ii.	Mid – semester test	20%
iii.	End – semester examination-	70%
<b>Total</b>		<b>100%</b>

**(b) Practical Block**

i.	Lab work field work/seminar, quizzes, assignments and regularity -	40%
ii.	End – semester examination-	60%
<b>Total</b>		<b>100%</b>

5.4 Industrial training and project work shall be treated as practical subjects.

5.5 In Practical block, Board of Studies may keep certain subjects, without end semester examination, in such subjects, evaluation shall be based on field work/seminar, quizzes, assignments/report and regularity.

5.6 For each theory subject, the institute shall be required to conduct at least two mid semester tests. The final mid semester marks shall be the average of the two higher mid semester marks.

5.7 Each student, registered for a course, shall be awarded grade on the basis of his/her performance. The grades to be used and their numerical equivalents are as under:

### **Choice Based Grading System**

<b>Grade</b>	<b>%Marks range (based on absolute marks system)</b>	<b>Grade Point</b>	<b>Description of performance</b>
A <sup>+</sup>	91-100	10	Outstanding
A	81-90	9	Excellent
B <sup>+</sup>	71-80	8	Very Good
B	61-70	7	Good
C <sup>+</sup>	51-60	6	Average
C	41-50	5	Satisfactory
D	31-40	4	Marginal
F	30 & below	0	Fail.
I		0	Incomplete.
W		0	Withdrawal

5.8 The Semester Grade Points Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as under:-

$$SGPA = \frac{\sum_{i=1}^n c_i p_i}{\sum_{i=1}^n c_i}$$

Where  $c_i$  is the number of Credits assigned for the  $i^{\text{th}}$  subject of a Semester,  $p_i$  is the grade point earned in the  $i^{\text{th}}$  subject, where  $i = 1, 2, \dots, n$ , is the number of subjects in that semester for which SGPA is to be calculated.

$$CGPA = \frac{\sum_{j=1}^m SG_j NC_j}{\sum_{j=1}^m NC_j}$$

here  $NC_j$  is the number of total Credits assigned for the  $j^{\text{th}}$  semester,  $SG_j$  is the SGPA earned in the  $j^{\text{th}}$  semester, where  $j = 1, 2, \dots, m$ , is the

number of semesters till which CGPA is being calculated.

Additional credits earned through MOOCS shall not be included in SGPA/CGPA calculations.

- 5.9 The grade sheet at end of each semester shall include SGPA of that semester and CGPA of all the semesters for which candidates has appeared in the examinations and the results of which have been declared. The final examination grade sheet at the end of final semester examination of the course shall also indicate CGPA, equivalent percentage marks and the division awarded, according to the rule as given in clause 7.0 of this ordinance.
- 5.10 The grade sheet of the eighth semester shall only be issued after he candidate has passed all the semester of the course.

## **6.0 CONDONATION OF DEFICIENCY**

- 6.1 Deficiency up to five marks can be condoned to the best of the advantage of the student for passing the examinations. The deficiency can be condoned in maximum of two subjects (theory and practical of the same subject shall be considered as two separate subjects, for the purpose of condoning the deficiency).
- 6.2 A deficiency of 0.001 in CGPA can be condoned for a candidate who have secured minimum passing grades in all the theory and practical subjects but have failed to score minimum requirement of 5.0 CGPA as per clause 4.2/4.5 of this ordinance.
- 6.3 On behalf of Vice-Chancellor a grace of 0.01 in CGPA will be granted to a candidate, who at the end of the course, is missing distinction/first division by 0.01 CGPA. However, this benefit shall not be granted to a candidate who have already availed the advantage/s under clause 6.1 and/or 6.2

## **7.0 AWARD OF DIVISION**

- 7.1 Division shall be awarded only after completion of the course, on the basis of integrated performance of the candidate in all the four years as per following details

<b>CGPA Score</b>	<b>Divisions</b>
$CGPA \geq 7.5$	First Division with Distinction
$7.5 > CGPA \geq 6.5$	First Division
$6.5 > CGPA \geq 5.0$	Second Division

7.2 The conversion from grade to an equivalent percentage shall be according to the following formula applicable.

$$\text{Percentage marks scored} = \text{CGPA obtained} \times 10$$

7.3 A candidate who has successfully completed the course as per the provisions of this ordinance and has earned through MOOCs, 20 credits more than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, as per the provision of clause 3.5 of this ordinance, shall be awarded B.Tech Degree with Honours or additional Minor Engineering, in the same programme.

## **8.0 MULTIPONT ENTRY AND EXIT CLAUSE**

8.1 The Bachelor of Technology degree shall be of four-year duration (Eight Semesters), with multiple entry and exit options within this period.

8.2 The candidate can exit after the successful completion of one academic year (Two semesters), followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with the Certificate in a discipline or a field as decided by the respective Board of Studies, which will be equivalent to level 5 of National Higher Education Qualification Framework (NHEQF) / National Skills Qualification Framework (NSQF) and unified credit level of 4.5

8.3 The candidate can exit after the successful completion of first two academic years (Four Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Under Graduate Diploma (in the particular discipline) or field as decided by the respective Board of Studies, which will be equivalent to level 6 of NHEQF/NSQF and unified credit level of 5.

8.4 The candidate can exit after the successful completion of first three academic years (Six Semesters) followed by an exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/apprenticeship, as approved by the respective Board of Studies. Such candidate will be awarded with Bachelor of Vocational Education (B.Voc.) (in the particular discipline) or field as decided by

the respective Board of Studies, which will be equivalent to level 7 of NHEQF/NSQF and unified credit level of 5.5

- 8.5 A candidate shall be awarded with Bachelor of Technology Degree (in the particular discipline) after the successful completion of all the four academic years (Eight Semesters).
- 8.6 A candidate shall also be eligible for award of Bachelor of Technology with Honours or Bachelor of Technology with additional minor engineering as per the clause 3.5 of the ordinance.
- 8.7 A candidate may avail an exit option at the end of any particular academic year and can re-enter the program, as regular candidate in the next year, at the beginning of any new academic session (i.e. only during odd semesters), provided that he/she has successfully completed all the previous year/s.
- 8.8 The re-entry of such candidates are subject to the condition that the total number of candidate studying in a particular year, including such re-entering candidates, shall not exceed 10% of the sanctioned intake of the program excluding the supernumerary seats and that the gap between each exit and entry level is not more than five years.
- 8.9 Due to above clause, if the number of candidates seeking re-entry is more than the seats available than admission for the re-entering candidates shall be on the basis of their CGPA of the qualifying year.
- 8.10 If a candidate is not able to seek re-entry due to above clause than he/she can apply for re-entry during the subsequent academic sessions.
- 8.11 If a candidate is seeking re-entry in a particular year, after a gap of five years from its previous exit and is not able to get entry due to clause 8.8 of this ordinance, the condition of maximum gap of five years, as stipulated in clause 8.8 above shall not be applicable to such candidates.

## **9.0 DURATION OF COURSE**

- 9.1 There shall be at least fourteen weeks of teaching in every semester.
- 9.2 One credit shall be equal to one hour of theory/Tutorial or two hours of practical classes per week.
- 9.3 A candidate may provisionally continue to attend next higher year, even if, the result of qualifying year / semester has not been declared. However, subsequently if he/she is not able to clear qualifying semester examination, the candidate cannot claim any right on the basis of his/her provisional admission.

## **10.0 PROVISION OF INTERNSHIP DURING FOURTH YEAR.**

- 10.1 A candidate who has been placed in a company, which is offering an in job internship to the candidate during any or all the semesters of the fourth year, can be permitted to attend the internship, provided that the candidate shall earn credits equal to the credit of that semester (excluding the major project) through equivalent MOOCs courses on the SWAYAM portal or any other platform as approved by the competent body of the University; however, such candidates shall be required to complete the Major project and submit the thesis in the Institution.
- 10.2 The Major Project shall be pertaining to his/her internship; for such project work, candidate shall be required to take one Guide from the department and another from the organisation where he/she is undergoing the internship.
- 10.3 The decision about the equivalent courses shall be taken by the respective Board of Studies.
- 10.4 The additional credits earned under the provision of clause 3.5 shall not be counted for this purpose.
- 10.5 Clause 10.0 of this ordinance shall also be applicable for the students admitted in final year from academic session 2022-2023.

## **11.0 MERIT LIST**

- 11.1 Only after the declaration of the result of eighth (final) semester examination, Branch wise merit list of first ten candidates in order of merit, in all the four years shall be declared by the University. The merit list shall include the first ten candidates who have secured at least first division. Have passed each semester sequentially in first attempt. However, while counting first ten candidates in order of their merit, if more than one candidate have scored same CGPA then all such candidates shall be included in the merit list.

**REGISTRAR**

**RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA  
BHOPAL**