RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Established under Act No. 13 of 1998

Ordinance No.4 (C)

(Section 40 (1))

Ordinance for Bachelor of Technology 4 year Degree course

(For the Candidates admitted in 1st year on and after July, 2017)

(Under Choice Based Credit System)

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 admissions 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 Government of Madhya Pradesh, 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 Minimum credits required to earn B.Tech. Degree in a particular branch shall be decided by the concerned Board of Studies (BOS),adhering to broad distribution of credits among various categories of courses as per details given in Table-1 below, and shall be approved by the standing committee of the Academic Council and the Executive Council of the University.

Table-1

Sr. No.	Category of courses	Code	Break up of Credits
1.	Humanities and Social Sciences including Management Courses (HSSM)	HSSM	12-15
2.	Basic Science Courses (BS)	BS	25-30
3.	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.(ES)	ES	24-30
4.	Professional core courses (PC)	PC	48-65
5.	Professional Elective courses relevant to chosen specialization/branch (PE)	PE	18-25
6.	Open subjects – Electives from other technical and /or emerging subjects (OS)	OS	18-18
7.	Project work, seminar and internship in industry or elsewhere (PR)	PR	15-20
8.	Mandatory Courses (MC)[Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	MC	Non Credit

3.3 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.

3.4 A Candidateshall be permitted to earn additional credits in self leaning mode through Massive Open Online Courses (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.

3.5 A List containing permitted courses for MOOCs along with their credits shall be prescribedby the respective BOS and shall be notified by the University from time to time.

3.6 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 SemesterB.Tech. Exam

(c) During Third Year
- Fifth Semester B.Tech. Exam and Sixth SemesterB.Tech. Exam

(d) During Fourth Year
- Seventh Semester B.Tech. Exam and Eighth SemesterB.Tech. Exam

2

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

3.8 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 periodshould 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 hasappeared 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: Acandidate 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 that 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.

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.

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 clause 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 considered as two separate subjects.). In the selected subject/s the Candidate may reappear either in end semester examination/ mid semester examination or in both.

4.7   Other than the provision of clause 4.6 above, a candidate shall not be permitted to reappear in any 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 the 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 tests, field work/seminar (if required),quizzes, regularity and end-semester examination, as proposed by respective Board of Studies and approved by the standing committee of the Academic Council and the Executive Council of the University.

5.3   The distribution of weightage/marks for each component shall be decided by the respective Board of Studies and approved by the standing committee of the Academic Council and the 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%
	Total	**100%**

(b)   Practical Block

i.   Lab work, field work / seminar, quizzes, assignments and regularity   40%

4

	ii.	End – semester examination	60%
		Total	**100%**

5.4 Industrial trainingand 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.

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

Grade	%Marksrange(based on absolute marks system)	Grade Point	Description of performance
A^+	91-100	10	Outstanding
A	81-90	9	Excellent
B^+	71-80	8	Very Good
B	61-70	7	Good
C^+	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 Point 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^{th}subject of a Semester, $p_i$is the grade point earned in thati^{th} subject, where i= 1,2,….. ,n, is the number of subjects in that semesterfor 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 jth semester, SG_j is the SGPA earned in the jth semester, where j = 1,2,….. m, is the number of semesters till which CGPA is being calculated.

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

5.9 The grade sheet at the end of each semester shall include SGPA of that semester and CGPA of all the semesters for which candidate 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 the candidate has passed all the semesters 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 0.01 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 the 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 successful completion of the course, on the basis of integrated performance of the candidate in all the four years as per following details:

CGPA Score	Divisions
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:

$$Percentage\ marks\ scored = CGPA\ obtained\ X\ 10$$

7.3 A candidate who has successfully completed the course as per the provisions of this ordinance and has earned through MOOCS, 20credits 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 3.4 of this ordinance, shall be awarded B. Tech. Degree with Honours or additional Minor Engineering, in the same programme.

8.0 DURATION OF COURSE

8.1 There shall be at least fourteen weeks of teaching in every semester.

8.2 One credit shall be equal to one hour of Theory/Tutorial or two hours of Practical classes per week.

8.3 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 pass qualifying semester examination, the candidate cannot claim any right on the basis of his/her provisional admission.

8.4 The maximum duration of the course shall be eight years. However, for one mercy attempt the clause 24.1.4 of the Ordinance No.12: "Examination General" shall be applicable.

9.0 MERIT LIST

9.1 Only after the declaration of the result of eighth (final) semester examination, branch wise merit list of first ten candidatesin 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 passedeach semestersequentiallyin 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.

10.0 ATTENDENCE

10.1 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 the Vice-Chancellor of the University, respectively, for satisfactory reasons.

11.0 MEDIUM OF INSTRUCTION AND EXAMINATION

11.1 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.

REGISTRAR
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
BHOPAL