

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Established under Act No. 13 of 1998

Ordinance No.4 (A)

(Section 40 (1))

Ordinance for Bachelor of Engineering 4 year Degree course

(For the Candidates admitted in 1st year on and after July, 2010)

(Under Credit Based Grading System applicable from July, 2010)

(Approved on 01 Feb. 2011)

- 1.0 The first degree in Engineering of four-year (eight semester) course, hereinafter called 4-YDC, shall be designated as BACHELOR OF ENGINEERING, in respective Branch.
- 1.1 This degree of Bachelor of Engineering (hereinafter called B.E.) shall include the branches of CIVIL, MECHANICAL, ELECTRICAL, ELECTRONICS, ELECTRONICS & COMMUNICATION, ELECTRONICS & INSTRUMENTATION, INFORMATION TECHNOLOGY, COMPUTER SCIENCE AND ENGINEERING, AUTOMOBILE, CHEMICAL, METALLURGICAL, MINING, TEXTILE, PRODUCTION ENGINEERING, FIRE TECHNOLOGY & SAFETY ENGINEERING, INSTRUMENTATION & CONTROL, ELECTRICAL & ELECTRONICS, BIO-MEDICAL, BIOTECHNOLOGY and INDUSTRIAL ENGG. & MANAGEMENT.
- 1.2 The studies and examinations of these B.E. courses shall be on the basis of Marks- Cum - credit system but semester wise and final evaluation shall be by grading system in accordance with the ordinance No. 30, "Credit Based Grading System" hereinafter referred as Ord.30.
- 1.3 This Ordinance shall also be applicable to 4-Year Part -time B.E. Course, which are approved by the State Government of Madhya Pradesh.

2.0 ADMISSIONS

- 2.1 Minimum qualification for admission to the first year B.E. shall be the qualifying Higher Secondary School Certificate Examination (10+2) scheme with Physics, Chemistry and Mathematics (also securing pass marks in these three subjects individually) conducted by M.P. Board of Secondary Education or an equivalent examination from a recognized Board/University.

- 2.2 Candidates who have qualified the Diploma course in related branch of engineering from M.P. Board of Technical Education, Bhopal or equivalent shall also be eligible for admission to first semester of B.E. course.
- 2.3 Minimum qualification for direct admission to second year Bachelor of Engineering Course termed as Lateral Entry shall be as per the prevalent norms of the Government of Madhya Pradesh.
- 2.4 Non-Resident Indian (N R I) candidates shall also be eligible for admission to B.E. in accordance with directives of the Government of Madhya Pradesh, provided they satisfy the criterion of clause 2.1 above.
- 2.5 The admissions to B.E. 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 of the state government of Madhya Pradesh.

3.0 EXAMINATIONS

- 3.1 There will be one University Examination at the end of each semester. These examinations will be designated as follows:
 - 3.1(a) During First Year
 - First Semester B.E., Exam, Second Semester B.E., Exam
 - 3.1(b) During Second Year
 - Third semester B.E. Exam, Fourth semester B.E. Exam
 - 3.1(c) During Third Year
 - Fifth semester B.E. Exam, Sixth semester B.E. Exam
 - 3.1(d) During fourth Year
 - Seventh semester B.E. Exam, Eighth semester B.E. Exam
- 3.2 The semester examination will generally be held in Nov-Dec. and April-May in each year.
- 3.3 There will be a full examination at the end of each semester consisting of end semester of theory and practical . The duration of examination period normally should not exceed 20 working days.

4.0 PROMOTION TO HIGHER SEMESTER AND YEAR

A candidate who has been admitted in the engineering course will be promoted to the higher class 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, will 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 even semester under B-A Group and has appeared in the examination of even semester, will automatically be promoted to next applicable odd semester irrespective of failing in any number of subjects of previous semester.

Note: The candidate who seeks admission in odd semester of an academic year is said to be in A-B group, while, a candidate who seeks admission in even semester of an academic 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 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 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 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.)
- 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 or for any other purpose.

5.0 AWARD OF CREDITS AND GRADES

- 5.1 Each course, 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, practical, home assignment, mid-semester test, field work, seminars, quizzes, end-semester examinations and regularity, 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 and regularity	10%
ii.	Mid – semester test -	20%
iii.	End – semester examination-	70%
Total		100%

(b) Practical Block		
i.	Lab work and performance, quizzes, assignments and regularity -	40%
ii.	End – semester examination-	60%
Total		100%

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

5.5 In each semester, the institute will be required to conduct at least two mid semester tests for theory block.

5.6 Each student, registered for a course, shall be awarded grade by the concerned faculty / faculties for the specific subject/paper. The grades awarded to a student shall depend upon his continuous evaluation through performance in various examinations, assignments, quizzes, laboratory work, class work, mid semester test and regularity. The grades to be used and their numerical equivalents are as under :

Credit Based Grading System

Grade	%Marks range (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

- 5.7 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 offered in the i^{th} subject of a Semester for which SGPA is to be calculated, p_i is the corresponding grade point earned in the i^{th} subject, where $i = 1, 2, \dots, n$, are the number of subjects in that semester.

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

here NC_j is the number of total credits offered in the j^{th} semester, SG_j is the SGPA earned in the j^{th} semester, where $j = 1, 2, \dots, m$, are the number of semesters in that course.

- 5.8 The grade sheet at end of each even semester examination for students of A-B group (odd semester, for students of B-A group) shall also show CGPA till end of that semester. 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 para 7.0 of this ordinance .
- 5.9 A candidate appearing in seventh semester after eighth semester (B-A group) will not be issued any Grade Sheet or Provisional Certificate after eighth semester until he has passed all the semesters.

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 not more than two subjects (theory and practical of the same subject shall be considered as two separate subjects, for the purpose of awarding grace marks).
- 6.2 One grace mark will be given to the candidate who is failing/missing distinction/missing first division by one mark, on behalf of the Vice-

Chancellor in the B.E. examination. This benefit will not, however, be available to a candidate getting advantage under clause 6.1.

7.0 AWARD OF DIVISION

7.1 Division shall be awarded only after the eighth (Seventh semester for candidates of B-A group) and final semester examination based on integrated performance of the candidate for all the four years as per following details

CGPA Score	Divisions
$7.5 \leq \text{CGPA}$	First Division With Honours
$6.5 \leq \text{CGPA} < 7.5$	First Division
$5.0 \leq \text{CGPA} < 6.5$	II Division

7.2 The conversion from grade to an equivalent percentage in a given academic program shall be according to the following formula applicable.

$$\text{Percentage marks scored} = \frac{\text{CGPA Obtained} \times 100}{10}$$

8.0 DURATION OF COURSE

- 8.1 There shall be at least fourteen weeks of teaching in every semester.
- 8.2 One hour of conduct in Lecturer (L) / Tutorial (T) / Practical (P) per week shall be equal to one credit as allotted in the respective schemes.
- 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 clear 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 para 24.1.4 of the Ordinance No.12: “Examination General” shall be applicable.

9.0 MERIT LIST

9.1 Branch wise final merit list of first ten (10) candidates in the order of merit shall be declared by the University only after the main examination of the eighth and final semester for B.E. degree, on the basis of the integrated performance of all the four years. The merit list shall include the first ten candidates securing at least first division and passing all semesters in single attempts.

10.0 ATTENDENCE

10.1 Candidates appearing as regular students for any semester examination are required to attend 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.

11.0 MEDIUM OF INSTRUCTION AND EXAMINATION

11.1 The medium of instruction and examination shall be English throughout the course of study.

11.2 The subjects to be studied in different semester of Bachelor of Engineering shall be as per the Schemes, approved by Board of Studies.

REGISTRAR
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
BHOPAL