



Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal

A Presentation on Choice Based Credit System by

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Why Choice Based Credit System ?

- Students can learn at their own pace
- Choose electives from a wide range of courses
- Undergo additional courses and acquire more than required number of credits
- Adopt an interdisciplinary approach in learning
- Inter college/University transfer of Credits
- Plenty of opportunities like audit credit
- Carry on and transfer their credit
- Enhance skill/employability by taking up project work, entrepreneurship and vocational training.

Who
will play
major role
in Choice
Based
Credit
System ?



Faculty Advisor / (HOD)

Choice Based Credit System

- ❑ Credit Requirement for BE degree is 180 credits
- ❑ Lower and upper limit for course credits registered in a semester by a full time student of a degree program
 - ❑ Lower limit - 16 Credits
 - ❑ Upper limit - 26 Credits
 - ❑ A Student can move to next level (2nd Year) only if he/she secures minimum of 22 credits at the end of First Year.
- ❑ The Maximum duration for a student for complying to the degree requirement is 8 years from the date of registration for the first semester

Choice Based Credit System

- The subjects listed in semester I or II will be in floating mode except the mathematics-I and II. Institutes will be free to make their own pool of subjects with total no of credits not exceeding 26 per semester.

Choice Based Credit System

- ❑ It is mandatory for a student to earn the required credits as mentioned in each semester i.e. he/she has to earn 52 credits in first year.
- ❑ A Student will be eligible to move to next level (i.e.2nd Year) only if he/she secures minimum of 22 credits at the end of First Year. However in such case he has to earn the remaining 32 credits as and when he/she chooses to opt for in the subsequent semesters.

Choice Based Credit System

- ❑ Criteria for poor performance at the end of second registered semester

Performance level	Earned Credits	Decision
Poor	< 22	Re-start (once only) or termination of registration

- ❑ If a student chooses to restart after the first two registered semesters then, his or her credits earned will be carried over.

Choice Based Credit System

☐ **Minimum Credit Threshold**

Check Point	Credit Threshold
End of First Year	22
End of Second Year	46
End of Third Year	70
End of Fourth Year	94

- ☐ If the earned credits after the restart are less than 22 then the registration will be terminated.
- ☐ Each student is expected to earn at least 11 credits in each registered semester of first year.

UG Degree Program Under RGPV

Choice Based Credit System

Branch	Code
Chemical Engineering	CH
Civil Engineering	CE
Computer Science and Engineering	CS
Electrical Engineering	EE
Electronics and Telecommunication	EC
Electrical and Electronics	EX
Electrical and Instrumentation	EI
Information Technology	IT
Mechanical Engineering	ME
Mining Engineering	MN
Mathematics	MA
Physics	PH
Chemistry	CY
Humanities	HU
Mandatory Learning Courses	ML

Choice Based Credit System

Syllabus Requirement

- ❑ A **departmental core** course is a compulsory course which a candidate must pass in the manner provided for in the regulations.
- ❑ A **departmental elective core** course refers to any technical course offered by the respective department for the fulfillment of the curriculum requirements of the degree of BE in respective department that are not classified as departmental core.
- ❑ **Open electives** offered by any parent departments are courses listed in the course structure under the open elective category and offered to any department

Choice Based Credit System

Syllabus Requirement

❑ Mandatory Learning Courses

These are courses that must be completed by the student at appropriate time.

❑ Project Work

Project work may consist of Major and Mini Project work offered by parent department.

❑ Practical Training

The student may complete the training before the beginning of the 7th Semester.

Choice Based Credit System

Course Structure

- 1. Foundation Course (FC) -45-55 credits

Basic science core courses 24 credits

Engineering science core courses 24 credits

Humanities and social science core courses 7 credits

- 2. Departmental Core Courses (DC) ≥ 60 Credits

- 3. Elective Courses (ELE) ≥ 40

Program specific electives (PSE) and open electives

- 4. Projects (Mini and Major) 8-12 Credits

- 5. Mandatory Learning Courses MLC 5-7 Credits

Choice Based Credit System

□ Contact Hours and Credits

- The norms for course credits are as follows:
- **Lectures/Tutorials** – One hour per week is assigned one credit
- **Practical** - 02 hour session per week is assigned one credit
- For example, a Theory course with a L-T-P schedule of 2-1-0 will be assigned 3 credits

L	T	P	C
2	1	0	3

- A laboratory practical course with a L-T-P schedule of 0-0-2 will be assigned 1 credits

L	T	P	C
0	0	2	1

Semester-I → Chemistry Cycle

Choice
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Credit
System

Course Code	Course Name	Credit Structure			
		L	T	P	C
MA110	Mathematics-I	3	1	0	4
CY 110	Chemistry	3	0	2	4
HU 110	English	3	0	2	4
CE110	Engineering Mechanics	2	1	2	4
ML 110	Environmental Sciences	2	0	0	2
ME110	Introduction to Mechanical Engineering	2	0	0	2
ME111	Engineering Graphics	2	0	4	4
HU111	Communication	0	2	0	2
	RGPV Bhopal	17	4	10	26

Choice
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System

Course Code	Course Name	Credit Structure			
		L	T	P	C
MA111	Mathematics-II	3	1	0	4
PH 110	Physics	3	0	2	4
EE 110	Fundamentals of Electrical Engineering	3	0	2	4
EC 110	Fundamentals of Electronics Engineering	3	0	2	4
ME 112	Concepts in Engineering Design	2	1	0	3
ME113	Manufacturing Practices	0	2	4	4
CS 110	Computer Programming Lab	2	0	2	3
	RGPV Bhopal	16	4	12	26

Table- Suggested Plan of Study for Mechanical Engineering

Sem	I	II	III	IV	V	VI	VII	VIII
1	MA110 (4)	MA111 (4)	ME 201 (4)	ME 250 (4)	ME 300 (4)	ME 350 (4)	ME440 (4)	ME490 (4)
2	CY110 (4)	PH110 (4)	ME 202 (4)	ME 251 (4)	ME301 (4)	ME 351 (4)	ME449 (4)	ME499 (4)
3	HU110 (4)	EE110 (4)	ME 203 (3)	ME 252 (3)	ME302 (3)	ME 352 (4)	ELE (4)	ELE (4)
4	CE110 (4)	EC110 (4)	ELE (4)	ME 253 (2)	ML302 (3)	ELE (4)	ELE (4)	ELE (2)
5	ML110 (2)	ME112 (3)	MA113 (3)	ELE (4)	ME304 (3)	ELE (4)	Project (4)	Project (4)
6	ME110 (2)	ME113 (4)	HU112 (3)	HU113 (4)	ELE (3)	ELE (2)		
7	ME111 (4)	CS110 (3)	ELE (2)	ELE (2)	ELE (2)			
8	HU111 (2)	-						
Total Credits	26	26	23	23	22	22	20	18
FC	37		6	4	3			
DC	13		11	13	11	12	8	8
ELE			6	6	5	10	8	6
ML	2				3			
MP							4	4

Choice Based Credit System

Degree Requirements for BE (Mechanical)

1. Foundation Course (FC)

Basic science core courses
Engineering science core courses
Humanities and social science core courses

2. Departmental Core Courses (DC)

3. Elective Courses (ELE)

Program specific electives (PSE) and open electives

4. Projects (Mini and Major)

5. Mandatory Learning Courses

**Minimum
Credits to be
Earned**

50

75

42

08

05

180

**Choice
Based
Credit
System**

THE OVERALL CREDIT STRUCTURE FOR BE (CIVIL)

COURSE CATEGORY	CREDITS
Basic Sciences (BS)	18
Engineering Arts and Science (EAS)	22
Humanities (HU)	18
Departmental Core (DC)	79
Departmental Electives (DE)	16
Open Elective Courses (OEC)	27
Total	180

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Choice Based Credit System

In case of queries or doubts on
CBCS. Please feel free to write
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