

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA

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Information Brochure on Choice Based Credit System in Under Graduate Courses 2015-16 onwards

Recommendation of National Knowledge Commission (NKC)

To ensure quality, NKC has called for reform of existing universities to ensure frequent curricula revisions, introduction of course credit system, enhancing reliance on internal assessment, encouraging research, and reforming governance of institutions.

Secretary, MHRD, GOI vide D.O.No.20-104/2014-Desk U, Dated: Nov.14th, 2014:

'In order to enhance efficiency and excellence in higher education system in the country and to mitigate the problems of students on migration from one Institution to another, the University Grants Commission has formulated Guidelines for adoption of Uniform Choice Based Credit System (CBCS) across all the universities. The guidelines have also been uploaded on the website of UGC (www.ugc.ac.in) and requested all the Institutions to implement this system. The Choice Based Credit System is to be implemented from the academic year, 2015-16.'

UGC Guidelines (www.ugc.ac.in):

Choice Based Credit System (CBCS): The CBCS provides choice for students to select from the prescribed courses (core, elective or minor or soft skill courses). In CBCS system there is a shift in focus from teacher-centric to learner-centric education. Emphasis is on studying/learning and not on teaching, with the learner being at the centre stage of all academic transactions.

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"Through a choice-based learning environment for students"

Why Choice Based Credit System ?

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

Important Instructions :

- 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 Credit
 Upper limit - 26 Credits
- 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.
- It is mandatory for a student to earn the required credits as mentioned in each semester i.e. he/she has to earn total of 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 cases he/she has to earn the remaining 32 credits as and when he/she chooses to opt for in the subsequent semesters.
- The Maximum duration for a student for complying to the 4 year BE degree requirement is 8 years from the date of registration for the first semester
- Criteria for poor performance at the end of second registered semester

Performance level	Earned Credits	Decision
Poor	< 22	Restart (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.
- 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.

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

Syllabus Requirements:-

- 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
- 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.

Course Structure:-

The total course contents for a 4 year BE Degree Programme will typically consist of following Components:

Course Structure		For Mech Engg		
A	Foundation Courses	FC	40- 55 Credits	50
	Basic Science Core Courses			
	Engineering Science Core Courses			
	Humanities and Social Science Core Courses			
B	Departmental Core Courses	DC	> = 60 Credits	75
C	Elective Courses	ELE	> = 40 Credits	42
	An elective course can be any of the following			
	Program specific electives			
	Open Electives			
D	Project (Mini and Major Project)	MP	8-12 Credits	8
E	Mandatory Learning Courses	MLC	7 Credits	5
			Total	180

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

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

The medium of instruction, examination and project reports will be **English**.

For further queries and suggestion feel free to contact on: Email: ce@rgtu.net