

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (MP)

Scheme Structure & Semester-wise credit distribution (as per AICTE flexible curricula)

General Definition:

HSMC	Humanities and Social Sciences including Management Courses
BSC	Basic Science Courses
ESC	Engineering Science Courses
DC	Departmental Core Courses
DE	Departmental Elective Courses
OC	Open Category Courses
DLC	Departmental Laboratory Courses/ Project & Seminar & Internship
MC	Mandatory Courses
SL [*]	Massive Open Online Course (MOOCs)

**Applicable for those willing to appear for degree with Honours or Specialization in Minor Engineering.*

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Definition of Credit:

1 Hr. Lecture (L) per week	1 credit
1 Hr. Tutorial (T) per week	1 credit
2 Hours Practical(Lab)/week	1 credit

Range of Credits:

A student will be eligible to get Under Graduate degree after earning minimum 160-200 credits whereas a student will be eligible to get Under Graduate degree with Honours or additional specialization in Minor Engineering, if a student completes 180-220 credits. These could be acquired through MOOCs.

Note: In partial fulfillment of flexible curriculum design, a mandate provision to earn credits through E-Learning (NPTEL/MOOC etc.) based Departmental Core/Elective (DC/DE) has been introduced. Additionally, to give the students more flexibility to orient themselves as per their interest while retaining the discipline specific knowledge and capabilities, provision for Open Category (OC) Courses have been made.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Structure of Undergraduate Engineering program as per AICTE Flexible Curricula

S. No.	Category	Component wise credit allotment of Courses by AICTE	For a Graduate Degree in Engineering	For a Graduate Degree in Engineering with Honours Or A Minor Specialization
1	Humanities and Social Sciences including Management Courses (HSMC)	12	10-15	10-15
2	Basic Science Courses (BSC)	25	24-30	24-30
3	Engineering Science courses including workshop, drawing, basics of electrical/mech/comp. (ESC)	24	18-30	18-30
4	Departmental Core Courses (DC)	48	48-65	48-65
5	Departmental Elective Courses relevant to specialization/branch (DE)	18	15-25	15-25
6	Open Category- Electives from other technical and /or emerging subjects (OC)	18	15-18	15-18
7	Project work and seminar / Internship in industry or appropriate work place/ academic and research institutions. (DLC)	15	10-20	10-20
8	Mandatory courses (Intellectual Property Right, Ethics in engineering, disaster management, Cyber security, Essence of Indian Traditional Knowledge) (MC)	Non Credit Courses		
9	Massive Open Online Courses (MOOCS)* (SL)	20	-	20
10	Participation & Winning in International/National Level Competitions ^{\$} (NLC) authorized by IOA (Indian Olympic Association)	03/04 ^{\$}	-	-
11	Swachh Bharat Summer Internship Unnanat Bharat Abhiyaan (100Hrs)/	-	2	2
12	Total	160	160-200	180-220

***for getting degree in honours or minor specialization** *\$ any one subject of same credit can be exchanged in lieu of that achievement*

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Scheme of Examination as per AICTE Flexible Curricula

Group A: I Semester (B Tech) *W.E.F. JULY 2018*

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignme nt	End Sem.	Lab work & Sessional					
1.	100201	BSC	Engineering Chemistry (BSC-2)	70	20	10	30	20	150	3	-	2	4
2.	100202	BSC	Mathematics-I (BSC-3)	70	20	10	-	-	100	3	1	-	4
3.	100203	HSMC	English for Communication (HSMC-3)	70	20	10	30	20	150	3	-	2	4
4.	100204	ESC	Basic Electrical & Electronics Engineering(ESC-4)	70	20	10	30	20	150	2	-	2	3
5.	100205	ESC	Engineering Graphics(ESC-5)	70	20	10	30	20	150	2	-	2	3
6.	100206	ESC	Manufacturing Practices(ESC-6)	-	-	-	15	10	25	-	-	2	1
7	100207	DLC	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8	100208	DLC	Swachh Bharat Summer Internship Unnnat Bharat Abhiyaan (100Hrs)/ Rural Out reach				15	10	25	-	-	4	2
9			Total	350	100	50	150	100	750	13	1	14	21

GROUP A: (CS, IT,EE, EX, EI, FT, AT, MI, BT & BM)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Scheme of Examination as per AICTE Flexible Curricula GROUP A: II Semester (B. Tech) **W.E.F. JULY 2018**

S.No .	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignme nt	End Sem.	Lab work & Sessional					
Mandatory Induction Program (First Three weeks)				Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations									
Fourth week onwards				The classes will start									
1.	100101	BSC	Engineering Physics (BSC-1)	70	20	10	30	20	150	2	1	2	4
2.	100102	HSMC	Energy & Environmental Engineering (HSMC-1)	70	20	10	-	-	100	3	-	-	3
3.	100103	ESC	Basic Computer Engineering (ESC-1)	70	20	10	30	20	150	3	-	2	4
4.	100104	ESC	Basic Mechanical Engineering(ESC-2)	70	20	10	30	20	150	3	-	2	4
5.	100105	ESC	Basic Civil Engineering & Mechanics(ESC-3)	70	20	10	30	20	150	3	-	2	4
6.	100106	HSMC	Language Lab. & Seminars (HSMC-2)	-	-	-	30	20	50	-	-	4	2
7.	100107	DLC	Internship-I (60 Hrs Duration) at the Institute level	To be completed during first/second semester. Its evaluation/credit to be added in third semester.									
8			Total	350	100	50	150	100	750	14	1	12	21

GROUP A: (CS, IT,EE, EX, EI, FT, AT, MI, BT & BM)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Scheme of Examination as per AICTE Flexible Curricula GROUP B: I Semester (B. Tech) W.E.F. JULY 2018

S.No .	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignme nt	End Sem.	Lab work & Sessional					
Mandatory Induction Program (First Three weeks)				Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations									
Fourth week onwards				The classes will start									
1.	100101	BSC	Engineering Physics (BSC-1)	70	20	10	30	20	150	2	1	2	4
2.	100102	HSMC	Energy & Environmental Engineering (HSMC-1)	70	20	10	-	-	100	3	-	-	3
3.	100103	ESC	Basic Computer Engineering (ESC-1)	70	20	10	30	20	150	3	-	2	4
4.	100104	ESC	Basic Mechanical Engineering(ESC-2)	70	20	10	30	20	150	3	-	2	4
5.	100105	ESC	Basic Civil Engineering & Mechanics(ESC-3)	70	20	10	30	20	150	3	-	2	4
6.	100106	HSMC	Language Lab. & Seminars (HSMC-2)	-	-	-	30	20	50	-	-	4	2
7.	100107	DLC	Internship-I (60 Hrs Duration) at the Institute level	To be completed during first/second semester. Its evaluation/credit to be added in third semester.									
8			Total	350	100	50	150	100	750	14	1	12	21

GROUP B: (AU, ME, IP, CE, IEM, TX, EC & CM)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Scheme of Examination as per AICTE Flexible Curricula

Group B: II Semester (B. Tech) **W.E.F. JULY 2018**

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem.	Quiz/ Assignme nt	End Sem.	Lab work & Sessional					
1.	100201	BSC	Engineering Chemistry (BSC-2)	70	20	10	30	20	150	3	-	2	4
2.	100202	BSC	Mathematics-I (BSC-3)	70	20	10	-	-	100	3	1	-	4
3.	100203	HSMC	English for Communication (HSMC-3)	70	20	10	30	20	150	3	-	2	4
4.	100204	ESC	Basic Electrical & Electronics Engineering(ESC-4)	70	20	10	30	20	150	2	-	2	3
5.	100205	ESC	Engineering Graphics(ESC-5)	70	20	10	30	20	150	2	-	2	3
6.	100206	ESC	Manufacturing Practices(ESC-6)	-	-	-	15	10	25	-	-	2	1
7	100207	DLC	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8	100208	DLC	Swachh Bharat Summer Internship Unnanat Bharat Abhiyaan (100Hrs)/ Rural Out reach				15	10	25	-	-	4	2
9			Total	350	100	50	150	100	750	13	1	14	21

GROUP B: (AU, ME, IP, CE, IEM, TX, EC & CM)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Scheme of Examination as per AICTE Flexible Curricula B.Tech. III Semester

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	200301	BSC	Mathematics-II (BSC-4)	70	20	10	-	-	100	3	1	-	4
2.	200302	DC	DC-1	70	20	10	-	-	100	3	1	-	4
3.	200303	DC	DC-2	70	20	10	30	20	150	3	-	2	4
4.	200304	DC	DC-3	70	20	10	30	20	150	3	-	2	4
5.	200305	DC	DC-4	70	20	10	30	20	150	3	-	2	4
6.	200306	DLC	DLC-1	-	-	-	30	20	50	-	-	4	2
8.	100107/ 100207	DLC	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
9	200307	DLC	90 hrs Internship based on using various software's – Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
10			Total	350	100	50	120	130	750	15	2	14	24
11.	200308	MC	Biology (MC-1) (only for Biotech Engg)	Non Credit Course									
12	200309	NLC	Participation & Winning in National level competition	-	-	-	-	-	-			8	4
		NSS/NCC											

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Scheme of Examination as per AICTE Flexible Curricula B.Tech. IV Semester

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S. No .	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	200401	BSC	Mathematics- III (BSC-5)	70	20	10	-	-	100	3	2	-	5
2.	200402	DC	DC-5	70	20	10	30	20	150	2	1	2	4
3.	200403	DC	DC-6	70	20	10	30	20	150	2	1	2	4
4.	200404	DC	DC-7	70	20	10	-	-	100	3	0	2	4
5.	200405	DC	DC-8	70	20	10	-	-	100	3	1	-	4
6.	200406	DC	DC-9	70	20	10	-	-	100	3	0	-	3
7.	200407	DLC	DLC-2	-	-	-	30	20	50	-	-	2	1
8.	200408	DLC	90 hrs Internship based on using various software's –Internship -II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.									3
9.		Total		420	120	60	90	60	750	16	5	8	25
10.	200409	MC	Cyber Security (MC-2)	Non-credit course									
11.	200410	NLC	Participation & Winning in National level competition									8	4
12		NSS/NCC											

*A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes e.g. a session of 2hour should be should be combined with that of traditional lab classes

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

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Proposed Scheme of Examination as per AICTE Flexible Curricula B.Tech. V Semester

For batches admitted in July, 17 & July, 18(w.e.f. July, 2018)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	300501	HSMC/MC	Intellectual Property & Copy Right (HSMC-4)	70	20	10	-	-	100	3	-	-	3
2.	300502	DC	DC-10	70	20	10	-	-	100	3	1	-	4
3.	300503	DC	DC-11	70	20	10	30	20	150	2	1	2	4
4.	300504	DC	DC-12	70	20	10	30	20	150	2	1	2	4
5.	300505	DC	DC-13	70	20	10	30	20	150	2	1	2	4
6.	300506	DLC	Minor Project-I (DLC-3)	-	-	-	30	20	50	-	-	4	2
7.	300507	DLC	Internship –II (Evaluation)	-	-	-	50	-	50	-	-	6	3
8	300508	DLC	60 hrs Internship in Industry or elsewhere Internship-III	To be evaluated in VII Semester									2
9			Total	350	100	50	170	80	750	12	4	16	24
10.	300509	MC	Ethics in Engineering (MC-3)	Non-credit course									
11.	300510	SL	MOOCs	-	-	-	-	-	-	-	-	-	4
12	300511	NLC	Participation & Winning in National level competition									8	4

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (MP)

Proposed Scheme of Examination as per AICTE Flexible Curricula B.Tech. VI Semester

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S. No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem Exam.	Quiz/ Assignment	End Sem.	Lab work & Sessional					
1.	300601	DC	DC-14	70	20	10	30	20	150	2	1	2	4
2.	300602	DE	DE-1	70	20	10	-	-	100	3	1	-	4
3.	300603	DE	DE-2	70	20	10	-	-	100	3	1	-	4
4.	300604	DE	DE-3	70	20	10	-	-	100	3	1	-	4
5.	300605	OC	OC-1	70	20	10	-	-	100	3	1	-	4
6.	300606	ESC/ MC	Disaster Management	70	20	10	-	-	100	2	-	-	2
7.	300607	DLC	Minor Project-II (DLC-4)	-	-	-	50	50	100	-	-	4	2
8.	300608	DLC	60 hrs Internship in Industry or elsewhere Internship-III	To be evaluated in VII Semester									3
9.			Total	420	120	60	80	70	750	16	5	6	24
10.	300609	NLC	Participation & Winning in National level competition	-	-	-	-	-	-	-	-	8	4
11.	300610	SL	MOOCs	-	-	-	-	-	-	-	-	-	4

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (MP)

Proposed Scheme of Examination as per AICTE Flexible Curricula B.Tech. VII Semester

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S.N.	Subject Code	Category	Subject Name & Title	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam	Quiz/ Assignment	End Sem.	Term Work Lab Work & Sessional					
1.	400701	DE	DE-4	70	20	10	25	25	150	3	-	2	4
2.	400702	DE	DE -5	70	20	10	-	-	100	2	-	-	2
3.	400703	DE	DE-6	70	20	10	-	-	100	2	1	-	3
4.	400704	OC	OC-2	70	20	10	-	-	100	3	-	-	3
5.	400705	MC	Creative Problem Solving Or Essence of Indian Traditional Knowledge (MC-4)	Non Credit Course									
6.	400706	DLC	Departmental Lab (DLC-5)	-	-	-	50	50	100	-	-	4	2
7.	400707	DLC	Internship -III) (Evaluation)	-	-	-	100	100	200	-	-	8	4
8			Total	350	100	50	125	125	750	10	1	14	18
9	400708	NLC	Participation & Winning in National level competition									6	4
10	400709	SL	MOOCs										4

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

Rajiv Gandhi Proudyogiki Vishwavidyalaya Bhopal (MP)

Proposed Scheme of Examination as per AICTE Flexible Curricula B-Tech VIII Semester

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S.N.	Subject Code	Category	Subject Name & Title	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam	Quiz/ Assignment	End Sem.	Term Work Lab Work & Sessional		L	T	P	
1.	400801	DE	DE-7	70	20	10	30	20	150	3	-	2	4
2.	400802	OC	OC-3	70	20	10	-	-	100	3	-	-	3
3.	400803	OC	OC-4	70	20	10	-	-	100	3	-	-	3
4.	400804	DLC	Major Project (DLC-6)	-	-	-	250	150	400	-	-	6	3
5			Total	210	60	30	280	170	750	9	-	8	13
6	400805	NLC	Participation & Winning in National level competition									8	4
7	400806	SL	MOOCs										8

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit