

**Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal**

New Scheme of Examination as per AICTE Flexible Curricula

**I Semester (Group A)**

**Bachelor of Technology (B.Tech.)**

**W.E.F. JULY 2018**

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

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/Assignment	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 classes will start													
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT102	BSC-2	Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	BT103	HSMC-1	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	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.	BT108	DLC-2	Swachh Bharat Summer Internship Umat Bharat Abhiyan (100Hrs)/ Rural Outreach				15	10	25	-	-	4	2
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>150</b>	<b>100</b>	<b>750</b>	<b>13</b>	<b>1</b>	<b>14</b>	<b>21</b>

**Rajiv Gandhi Proud yogiki Vishwavidyalaya, Bhopal**

**New Scheme of Examination as per AICTE Flexible Curricula**

**I Semester (Group B)**

**Bachelor of Technology (B.Tech.)**

**W.E.F. JULY 2018**

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

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/Assignment	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 classes will start													
1.	BT201	BSC-3	Engineering Physics	70	20	10	30	20	150	2	1	2	4
2.	BT102	BSC-2	Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	10	30	20	150	3	-	2	4
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	10	30	20	150	3	-	2	4
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	30	20	150	3	-	2	4
6.	BT206	HSMC-2	Language Lab & Seminars	-	-	-	30	20	50	-	-	2	1
7.	BT107	DLC-1	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.									
<b>Total</b>				<b>350</b>	<b>100</b>	<b>50</b>	<b>150</b>	<b>100</b>	<b>750</b>	<b>14</b>	<b>2</b>	<b>10</b>	<b>21</b>

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

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.)**

**W.E.F. JULY 2018**

**II Semester (Group A)**

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

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/Assignment	End Sem.	Lab work & Sessional					
1.	BT201	BSC-3	Engineering Physics	70	20	10	30	20	150	2	1	2	4
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	4
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	10	30	20	150	3	-	2	4
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	10	30	20	150	3	-	2	4
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	30	20	150	3	-	2	4
6.	BT206	HSMC-2	Language Lab & Seminars	-	-	-	30	20	50	-	-	2	1
7.	BT107	DLC-1	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.									
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>150</b>	<b>100</b>	<b>750</b>	<b>14</b>	<b>2</b>	<b>10</b>	<b>21</b>

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

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.)**

**II Semester (Group B)**

**W.E.F. JULY 2018**

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

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/ Assignment	End Sem.	Lab work & Sessional					
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	4
3.	BT103	HSMC-1	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	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.	BT108	DLC-2	Swachh Bharat Summer Internship Unnat Bharat Abhiyan (100Hrs)/ Rural Outreach				15	10	25	-	-	4	2
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>150</b>	<b>100</b>	<b>750</b>	<b>13</b>	<b>1</b>	<b>14</b>	<b>21</b>

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

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

New Scheme of Examination as per AICTE Flexible Curricula

III Semester

Bachelor of Technology (B.Tech.) [Civil Engineering]

**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.	BT301	BSC-5	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	CE302	DC-1	Construction Materials	70	20	10	-	-	100	3	1	-	4
3.	CE303	DC-2	Surveying	70	20	10	30	20	150	3	-	2	4
4.	CE304	DC-3	Building Planning & Architecture	70	20	10	30	20	150	3	-	2	4
5.	CE305	DC-4	Strength of Materials	70	20	10	30	20	150	3	-	2	4
6.	CE306	DLC-3	Study of Historical & Ancient Civil Engineering Practices	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various softwares -Internship -II	To be completed anytime during Third/ Fourth semester. Its evaluation/credit to be added in fifth semester.									
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>120</b>	<b>130</b>	<b>750</b>	<b>15</b>	<b>2</b>	<b>14</b>	<b>24</b>
			NSS/NCC										

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering/  
Computer Engineering/Computer Science & Technology]

**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.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	CS302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4
3.	CS303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4
4.	CS304	DC-3	Digital Systems	70	20	10	30	20	150	3	-	2	4
5.	CS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	CS306	DLC-3	Computer Workshop	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various softwares –Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>120</b>	<b>130</b>	<b>750</b>	<b>15</b>	<b>2</b>	<b>14</b>	<b>24</b>
			NSS/NCC										









**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

New Scheme of Examination as per AICTE Flexible Curricula

III Semester

**Bachelor of Technology (B.Tech.) [Mechanical Engineering]**

*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.	BT301	BSC-5	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	ME302	DC-1	Thermodynamics	70	20	10	-	-	100	3	1	-	4
3.	ME303	DC-2	Materials Technology	70	20	10	30	20	150	3	-	2	4
4.	ME304	DC-3	Strength of Material	70	20	10	30	20	150	3	-	2	4
5.	ME305	DC-4	Manufacturing Process	70	20	10	30	20	150	3	-	2	4
6.	ME306	DLC-3	Thermal Engg Lab	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I Year Level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	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.									
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>120</b>	<b>130</b>	<b>750</b>	<b>15</b>	<b>2</b>	<b>14</b>	<b>24</b>
			NSS/NCC										

## Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Civil Engineering]

**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.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	CE402	DC	Construction Technology	70	20	10	30	20	150	2	1	2	4
3.	CE403	DC	Structural Analysis-I	70	20	10	30	20	150	3	1	2	5
4.	CE404	DC	Transportation Engineering-I	70	20	10	30	20	150	3	1	2	5
5.	CE405	DC	Engineering Geology & Remote Sensing	70	20	10	30	20	150	3	0	2	4
6.	CE406	DLC*	Software Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	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	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
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.  
MST: Minimum of two mid semester tests to be conducted.

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

**Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

**Bachelor of Technology (B.Tech.) [Computer Science and Engineering/  
Computer Engineering/Computer Science & Technology]**

**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.	BT401	BSC	Mathematics- III	70	20	10	-	-	100	3	1	-	4
2.	CS402	DC	Analysis Design of Algorithm	70	20	10	30	20	150	2	1	2	4
3.	CS403	DC	Software Engineering	70	20	10	30	20	150	3	1	2	5
4.	CS404	DC	Computer Org. & Architecture	70	20	10	30	20	150	3	1	2	5
5.	CS405	DC	Operating Systems	70	20	10	30	20	150	3	0	2	4
6.	CS406	DLC*	Programming Practices	-	-	-	30	20	50	-	-	4	2
7.	BT407	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	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
NSS/NCC													

\*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.  
MST: Minimum of two mid semester tests to be conducted.

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

## Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]

**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.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	EC402	DC	Signals & Systems	70	20	10	30	20	150	2	1	2	4
3.	EC403	DC	Analog Communication	70	20	10	30	20	150	3	1	2	5
4.	EC404	DC	Control System	70	20	10	30	20	150	3	1	2	5
5.	EC405	DC	Analog Circuits	70	20	10	30	20	150	3	0	2	4
6.	EC406	DLC*	Simulation Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	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	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
NSS/NCC													

\*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

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

## Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Electrical & Electronics Engineering]

**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.	BT401	BSC	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	EX402	DC	Electrical Machine-I	70	20	10	30	20	150	2	1	2	4
3.	EX403	DC	Digital Electronics & Logic Design (DELD)	70	20	10	30	20	150	3	1	2	5
4.	EX404	DC	Power System-I	70	20	10	30	20	150	3	1	2	5
5.	EX405	DC	Control System	70	20	10	30	20	150	3	0	2	4
6.	EX406	DLC*	Computer Programming-II (Python)	-	-	-	30	20	50	-	-	4	2
7.	BT407	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	
			Total	350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
			NSS/NCC										

\*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

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

## Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Information Technology]

**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.	BT401	BSC	Mathematics- III	70	20	10	-	-	100	3	1	-	4
2.	IT402	DC	Computer Architecture	70	20	10	-	-	100	2	1	-	3
3.	IT403	DC	Analysis and Design of Algorithm	70	20	10	30	20	150	3	1	2	5
4.	IT404	DC	Analog & Digital Communication	70	20	10	30	20	150	3	1	2	5
5.	IT405	DC	Data base Management System	70	20	10	30	20	150	3	0	2	4
6.	IT406	DLC*	Introduction to MATLAB, Scilab/Web Design	-	-	-	30	20	50	-	-	4	2
7.	IT407	DLC*	Dot Net	-	-	-	30	20	50	-	-	2	1
8.	BT408	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	
Total				350	100	50	150	100	750	14	4	12	24
9.	BT409	MC	Cyber Security	Non-credit course									
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.

MST: Minimum of two mid semester tests to be conducted.

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

## Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester

Bachelor of Technology (B.Tech.) [Mechanical Engineering]

**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.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	ME402	DC	INSTRUMENTATION & CONTROL	70	20	10	30	20	150	2	1	2	4
3.	ME403	DC	THEORY OF MACHINES	70	20	10	30	20	150	3	1	2	5
4.	ME404	DC	FLUID MECHANICS	70	20	10	30	20	150	3	1	2	5
5.	ME405	DC	MANUFACTURING TECHNOLOGY	70	20	10	30	20	150	3	0	2	4
6.	ME406	DLC*	SOFTWARE LAB	-	-	-	30	20	50	-	-	4	2
7.	BT407	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	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
NSS/NCC													

\*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

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



**Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech) Civil Engineering (w.e.f. July, 2019)**

V Semester

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.	CE-501	DC	Fluid Mechanics I	70	20	10	30	20	150	2	1	2	4
2.	CE-502	DC	Transportation Engg II	70	20	10	30	20	150	2	1	2	4
3.	CE-503	DE	Departmental Elective	70	20	10	-	-	100	4	-	-	4
4.	CE-504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CE-505	D Lab	Quantity surveying & Costing	-	-	-	30	20	50	-	-	4	2
6.	CE-506	O/E Lab	Material Testing Lab	-	-	-	30	20	50	-	-	4	2
7.	CE-507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship -III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CE-508	P	Field Visit, Case Study and Seminar	-	-	-	-	50	50			4	2
10	Additional Credits <sup>a</sup>	<sup>a</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
<b>Total</b>				<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>230</b>	<b>750</b>	<b>11</b>	<b>2</b>	<b>22</b>	<b>24</b>

Departmental Electives		Open Electives	
CE503 (A) Structural Analysis-II		CE504 (A) Urban and town planning	
CE503 (B) Construction planning and management		CE504 (B) Remote Sensing and GIS	
CE503 (C) Quantity surveying & Costing		CE504 (C) Renewable energy resources	
CE503 (D) Marine Construction		CE504 (D) Entrepreneurship development and management	

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

New Scheme of Examination as per AICTE Flexible Curricula

V Semester

**Bachelor of Technology (B.Tech) Computer Science and Engineering/  
Computer Engineering/Computer Science & Technology]**

**(w.e.f. July, 2019)**

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.	CS-501	DC	Theory of Computation	70	20	10	30	20	150	3	-	2	4
2.	CS-502	DC	Database Management Systems	70	20	10	30	20	150	3	-	2	4
3.	CS -503	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
4.	CS -504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CS -505	D Lab	Lab (Linux)	-	-	-	30	20	50	-	-	4	2
6.	CS -506	O/E Lab	Lab (Python)	-	-	-	30	20	50	-	-	4	2
7.	CS -507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CS -508	P	Minor Project- I	-	-	-	-	50	50			4	2
10.	Additional Credits <sup>o</sup>		<sup>o</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
			<b>Total</b>	<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>230</b>	<b>750</b>	<b>12</b>	<b>1</b>	<b>22</b>	<b>24</b>

Departmental Electives	Open Electives
CS 503 (A) Data Analytics	CS 504 (A) Internet and Web Technology *
CS 503 (B) Pattern Recognition	CS 504 (B) Object Oriented Programming **
CS 503 (C) Cyber Security	CS 504 (C) Introduction to Database Management Systems**

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.) Electronics & Communication Engg. (w.e.f. July, 2019)**

**V Semester**

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.	EC 501	DC	Microprocessor & its Application	70	20	10	30	20	150	2	1	2	4
2.	EC 502	DC	Digital Communication	70	20	10	30	20	150	2	1	2	4
3.	EC 503	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	EC 504	OE	Open Elective	70	20	10	-	-	100	3	-	0	3
5.	EC 505	D Lab	CNTL Lab	-	-	-	30	20	50	-	-	4	2
6.	EC 506	O/E Lab	Matlab Programming	-	-	-	30	20	50	-	-	4	2
7.	EC-507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	EC 508	P	Minor Project 1	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
			Total	280	80	40	120	230	750	11	2	22	24

Departmental Electives	Open Electives
EC 503 (A) CNTL	EC 504 (A) EMT (Electro Magnetic (Theory)
EC 503 (B) Mobile Communication	EC 504 (B) Computer System Organisation
EC 503 (C) Advanced Control system	EC 504 (C) Process Control Instrumentation

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.) Electrical & Electronics Engineering (w.e.f. July, 2019)**

**V Semester**

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.	EX 501	DC	Electrical Machine-II	70	20	10	30	20	150	3		2	4
2.	EX 502	DC	Power Electronics	70	20	10	30	20	150	3		2	4
3.	EX 503	DE	Departmental Elective -I	70	20	10	--	-	100	3	1	-	4
4.	EX 504	OE	Open Elective -I	70	20	10	-	-	100	3		-	3
5.	EX 505	D Lab	Departmental Lab				30	20	50	-	1	3	2
6.	EX 506	O/E Lab	Open Elective Lab				30	20	50	-	1-	3	2
7.	BT 507	IN	Evaluation of Internship II					100	100			6	3
8.		IN	Internship III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	EX 508	P	Minor Project I / Seminar					50	50			4	2
10.	Additional Credits <sup>g</sup>		<sup>g</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
			<b>Total</b>	<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>230</b>	<b>750</b>	<b>12</b>	<b>3</b>	<b>18</b>	<b>24</b>

**Departmental Elective-I**

EX 503 (A) Electrical Power Generation & Economy  
 EX 503 (B) Wind & Solar Energy  
 EX 503 (C) Renewable Power Generation

**Open Elective-I**

EX 504 (A) Industrial Electronics  
 EX 504 (B) Electromagnetic Theory  
 EX 504 (C) Electrical & Electronics Materials

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.) in Information Technology**

**(w.e.f. July, 2019)**

**V Semester**

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.	IT 501	DC	Operating System	70	20	10	30	20	150	3	-	2	4
2.	IT 502	DC	Computer Network	70	20	10	30	20	150	3	-	2	4
3.	IT 503	DE	Departmental Elective-I	70	20	10	-	-	100	3	1	-	4
4.	IT 504	OE	Open Elective-I	70	20	10	-	-	100	3	-	-	3
5.	IT 505	D Lab	Advanced Java Lab	-	-	-	30	20	50	-	1	2	2
6.	IT 506	HSMC Lab	Soft Skills and Interpersonal Communication	-	-	-	30	20	50	-	1	2	2
7.	IT 507	IN	Evaluation of Internship-II					100	100			6	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	IT 508	P	Minor Project I/Seminar	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
			<b>Total</b>	<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>230</b>	<b>750</b>	<b>12</b>	<b>3</b>	<b>18</b>	<b>24</b>

**Departmental Elective- I**

IT 503 (A) Theory of Computation  
 IT 503 (B) Microprocessor & Interfacing  
 IT 503 (C) Principles of programming Languages

**Open Elective- I**

IT 504 (A) Artificial Intelligence  
 IT 504 (B) E Commerce & Governance  
 IT 504(C) Java Programming

**Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.) Mechanical Engineering**

**(w.e.f. July, 2019)**

**V Semester**

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.	ME 501	DC	I C Engines	70	20	10	30	20	150	3	-	2	4
2.	ME 502	DC	Mechanical Vibration	70	20	10	30	20	150	2	1	2	4
3.	ME 503	DE	Departmental Elective	70	20	10	-	-	100	4	-	-	4
4.	ME 504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	ME 505	D Lab	FEM/CFD Lab	-	-	-	30	20	50	-	-	4	2
6.	ME 506	O/E Lab	Python	-	-	-	30	20	50	-	-	4	2
7.	ME 507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	ME 508	P	Minor Project I	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	230	750	12	1	22	24

Departmental Electives	Open Electives
ME 503 (A) Mechatronics	ME 504 (A) Industrial Engineering & Ergonomics
ME 503 (B) Dynamics of Machine	ME 504 (B) TQM and SQC
ME 503 (C) Alternate Automotive Fuels & Emissions	ME 504 (C) Finite Element Method

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**  
**New Scheme of Examination as per AICTE Flexible Curricula**  
**Bachelor of Technology (B.Tech.) Civil Engineering** (w.e.f. Jan, 2020)

**VI Semester**

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.	CE601	DC	Structural Design and Drawing (RCC-I)	70	20	10	30	20	150	2	1	2	4
2.	CE 602	DC	Environmental Engineering I	70	20	10	30	20	150	2	1	2	4
3.	CE 603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CE 604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CE 605	D Lab	Advance surveying lab	-	-	-	30	20	50	-	-	6	3
6.	CE 606	O/E Lab	Non Destructive Testing Lab	-	-	-	30	20	50	-	-	6	3
7.	CE 607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CE 608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits <sup>#</sup>	<sup>#</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
			<b>Total</b>	<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>130</b>	<b>650</b>	<b>12</b>	<b>2</b>	<b>20</b>	<b>24</b>

Departmental Electives	Open Electives
603 (A) Water resources engineering	604(A) Fluid Mechanics II
603 (B) Precast and modular construction	604(B) Intellectual Property rights(IPR)
603(C) Advance pavement design	604(C) Environmental Impact Assessment
603(D) Cost effective and Eco-friendly structures	604(D) Operation Research

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

**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

New Scheme of Examination as per AICTE Flexible Curricula

**VI Semester**

**Bachelor of Technology (B.Tech.) Computer Science and Engineering/ (w.e.f. Jan, 2020)  
Computer Engineering/Computer Science & Technology]**

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.	CS601	DC	Machine Learning	70	20	10	30	20	150	2	1	2	4
2.	CS602	DC	Computer Networks	70	20	10	30	20	150	2	1	2	4
3.	CS603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CS604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CS605	D Lab	Data Analytics Lab	-	-	-	30	20	50	-	-	6	3
6.	CS606	O/E Lab	Skill Development Lab	-	-	-	30	20	50	-	-	6	3
7.	CS607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CS608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits <sup>#</sup>	<sup>#</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
			<b>Total</b>	<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>130</b>	<b>650</b>	<b>12</b>	<b>2</b>	<b>20</b>	<b>24</b>

Departmental Electives	Open Electives
603 (A) Advanced Computer Architecture	604(A) Knowledge Management
603 (B) Computer Graphics & Visualization	604(B) Project Management
603 (C) Compiler Design	604 (C) Rural Technology & Community Development

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



## Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Electronics & Communication Engg. **(w.e.f. Jan, 2020)**

VI Semester

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.	EC601	DC	Digital Signal Processing	70	20	10	30	20	150	2	1	2	4
2.	EC602	DC	Antenna & Wave propagation	70	20	10	30	20	150	2	1	2	4
3.	EC603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	EC604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	EC605	D Lab	Data Communication Lab	-	-	-	30	20	50	-	-	6	3
6.	EC606	O/E Lab	Microcontroller & Embedded system	-	-	-	30	20	50	-	-	6	3
7.	EC607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	EC608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits <sup>#</sup>	<sup>#</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
<b>Total</b>				<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>130</b>	<b>650</b>	<b>12</b>	<b>2</b>	<b>20</b>	<b>24</b>

Departmental Electives	Open Electives
603 (A) Data Communication	604(A) Microcontroller & Embedded system
603 (B) CMOS Design	604(B) Bio-medical Electronics
603(C) Satellite Communication	604(C) Power Electronics

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

## Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B. Tech.) Electrical & Electronics Engg. (w.e.f. Jan, 2020)

VI Semester

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.	EX601	DC	Power System-II	70	20	10	30	20	150	2	1	2	4
2.	EX602	DC	Microprocessor & Micro-controller	70	20	10	30	20	150	2	1	2	4
3.	EX603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	EX604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	EX605	D Lab	Electronic Instrumentation Lab	-	-	-	30	20	50	-	-	6	3
6.	EX606	O/E Lab	Simulation Lab	-	-	-	30	20	50	-	-	6	3
7.	BT607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	EX608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits <sup>#</sup>	<i><sup>#</sup>Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.</i>										UG	
<b>Total</b>				<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>130</b>	<b>650</b>	<b>12</b>	<b>2</b>	<b>20</b>	<b>24</b>

Departmental Electives	Open Electives
603 (A) Utilization of Electrical Engineering	604(A) Electronic Instrumentation
603 (B) Energy Conservation & Management	604(B) Internet of Things (IoT)
603(C) Electromagnetic Waves	604(C) Analog & Digital communication

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

## Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Information Technology **(w.e.f. Jan, 2020)**

VI Semester

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.	IT601	DC	Computer Graphics & Multimedia	70	20	10	30	20	150	2	1	2	4
2.	IT602	DC	Wireless and Mobile Computing	70	20	10	30	20	150	2	1	2	4
3.	IT603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	IT604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	IT605	D Lab	Programming in Python	-	-	-	30	20	50	-	-	6	3
6.	IT606	O/E Lab	Android Programming	-	-	-	30	20	50	-	-	6	3
7.	IT607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	IT608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits <sup>#</sup>	<sup>#</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
		Total		280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Compiler Design	604(A) Intellectual Property Rights
603 (B) Data Mining	604(B) Software Engineering
603 (C) Embedded Systems	604 (C) Wireless Sensor Networks

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

## Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

VI Semester

Bachelor of Technology (B.Tech.) Mechanical Engineering **(w.e.f. Jan, 2020)**

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.	ME601	DC	Thermal Engineering and Gas Dynamics	70	20	10	30	20	150	2	1	2	4
2.	ME602	DC	Machine Component Design	70	20	10	30	20	150	2	1	2	4
3.	ME603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	ME604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	ME605	D Lab	CAD Lab	-	-	-	30	20	50	-	-	6	3
6.	ME606	O/E Lab	RDBMS	-	-	-	30	20	50	-	-	6	3
7.	ME607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	ME608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits <sup>#</sup>	<sup>#</sup> Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
			<b>Total</b>	<b>280</b>	<b>80</b>	<b>40</b>	<b>120</b>	<b>130</b>	<b>650</b>	<b>12</b>	<b>2</b>	<b>20</b>	<b>24</b>

Departmental Electives	Open Electives
603 (A) Turbo Machinery	604(A) Robotics
603 (B) Computer Aided Engineering	604(B) Optimization Techniques
603(C) Product Design	604(C) Renewable Energy Technology

Swayam on line course (any one of one sem duration)

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

**Semester VII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Civil Engineering)

**Subject wise distribution of marks and corresponding credits****Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment /Quiz/Term paper						
1	CE-7001	Advance Structural Design –I (RCC)	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	CE-7002	Structural Design II (Steel)	70	20	10	30	10	10	150	3	1	2	6	
3	CE-7003	Modern Construction Technique & Equipment	70	20	10	30	10	10	150	3	1	2	6	
4	CE-7004	Elective-III	70	20	10	-	-	-	100	3	1	-	4	
5	CE-7005	Elective-IV	70	20	10	-	-	-	100	3	1	-	4	
6	CE-7006	Project -I	-	-	-	60	20	20	100	-	-	4	4	
7	CE-7007	Industrial Training (Two weeks)	-	-	-	30	10	10	50	-	-	2	2	
			350	100	50	180	60	60	800	15	5	12	32	Total Marks
														800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-III (Four Subjects)		Department Elective-IV (Four Subjects)	
S. No.	Subject Name	S. No.	Subject Name
1	Pavement Design	1	Infrastructure Engineering
2	Marine Construction	2	Earthquake Resistant Design
3	Air and Noise Pollution Control	3	Urban & Town Planning
4	Cost-Effective & Eco-Friendly Construction	4	Life Cycle Costing of Structures

**Semester VII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Computer Science &amp; Engineering)

**Subject wise distribution of marks and corresponding credits****Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted						Hours / week.			Total Credits	Remarks	
			Theory			Practical			Total Marks	L	T			P
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment /Quiz/Term paper						
1	CS-7001	Distributed System	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	CS-7002	Compiler Design	70	20	10	30	10	10	150	3	1	2	6	
3	CS-7003	Web Engineering	70	20	10	30	10	10	150	3	1	2	6	
4	CS-7004	Elective-III	70	20	10	-	-	-	100	3	1	-	4	
5	CS-7005	Elective-IV	70	20	10	-	-	-	100	3	1	-	4	
6	CS-7006	Project -I	-	-	-	60	20	20	100	-	-	4	4	
7	CS-7007	Industrial Training (Two weeks)	-	-	-	30	10	10	50	-	-	2	2	
			350	100	50	180	60	60	800	15	5	12	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-III		Department Elective-IV	
S. No.	Subject Name	Subject Name	
1	Embedded Systems	Human Computer Interaction	
2	Digital Image Processing	Data Science & Big data	
3	Modern Information Retrieval	Multimedia Systems	

**Semester VII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Electronics and Communication Engineering)

**Subject wise distribution of marks and corresponding credits****Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment /Quiz/Term paper						
1	EC-7001	Microwave Engineering	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	EC-7002	Satellite Communication	70	20	10	30	10	10	150	3	1	2	6	
3	EC-7003	Optical Communication	70	20	10	30	10	10	150	3	1	2	6	
4	EC-7004	Elective-III	70	20	10	-	-	-	100	3	1	-	4	
5	EC-7005	Elective-IV	70	20	10	-	-	-	100	3	1	-	4	
6	EC-7006	Project -I	-	-	-	60	20	20	100	-	-	4	4	
7	EC-7007	Industrial Training (Two weeks)	-	-	-	30	10	10	50	-	-	2	2	
			350	100	50	180	60	60	800	15	5	12	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-III		Department Elective-IV	
S. No.	Subject Name	S. No.	Subject Name
1	Data Communication	1	Information Theory & Coding
2	Power Electronics	2	Wireless Communication
3	Digital Image Processing	3	Operating Systems

**Semester VII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Electrical &amp; Electronics Engineering)

Subject wise distribution of marks and corresponding credits**Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted						Hours / week.			Total Credits	Remarks	
			Theory			Practical			Total Marks	L	T			P
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment /Quiz/Term paper						
1	EX-7001	Computer Network	70	20	10	30	10	10	150	3	1	2	6	One credit refer to one hour teaching in theory, Tutorial and practical.
2	EX-7002	Electric Drives	70	20	10	30	10	10	150	3	1	2	6	
3	EX-7003	Computer Application to Power System	70	20	10	30	10	10	150	3	1	2	6	
4	EX-7004	Elective-III	70	20	10	-	-	-	100	3	1	-	4	
5	EX-7005	Elective-IV	70	20	10	-	-	-	100	3	1	-	4	
6	EX-7006	Project -I	-	-	-	60	20	20	100	-	-	4	4	
7	EX-7007	Industrial Training (Two weeks)	-	-	-	30	10	10	50	-	-	2	2	
			350	100	50	180	60	60	800	15	5	12	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture T: Tutorial P: Practical

Department Elective-III (Four Subjects)		Department Elective-IV (Four Subjects)	
S. No.	Subject Name	Subject Name	
1	High Voltage Engineering	Power System Economics	
2	Reliability Engineering	EHVAC/DC Transmission	
3	SCADA Systems & Applications	FACTS	
4	Renewable & Non-Conventional Energy Systems	Advanced Control System	



**Semester VII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Information Technology)

Subject wise distribution of marks and corresponding credits**Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment /Quiz/Term paper						
1	<b>IT-7001</b>	Cloud Computing	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	<b>IT -7002</b>	Object Oriented Analysis and Design	70	20	10	30	10	10	150	3	1	2	6	
3	<b>IT -7003</b>	Wireless & Mobile Computing	70	20	10	30	10	10	150	3	1	2	6	
4	<b>IT -7004</b>	Elective-III	70	20	10	-	-	-	100	3	1	-	4	
5	<b>IT -7005</b>	Elective-IV	70	20	10	-	-	-	100	3	1	-	4	
6	<b>IT -7006</b>	Project -I	-	-		60	20	20	100	-	-	4	4	
7	<b>IT -7007</b>	Industrial Training (Two weeks)	-	-	-	30	10	10	50	-	-	2	2	
			350	100	50	180	60	60	800	15	5	12	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture T: Tutorial P: Practical

Department Elective-III		Department Elective-IV	
S. No.	Subject Name	S. No.	Subject Name
1	Cyber Security & forensic	1	Ad-hoc Network
2	E-Commerce & Governance	2	Artificial Intelligence (AI)
3	Simulation & Modeling	3	Embedded System

**Semester VII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Mechanical Engineering)

Subject wise distribution of marks and corresponding credits**Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted						Total Marks	Hours / week.			Total Credits	Remarks
			Theory			Practical				L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment /Quiz/Term paper						
1	ME-7001	Mechanical Vibration	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	ME -7002	Automobile Engineering	70	20	10	30	10	10	150	3	1	2	6	
3	ME -7003	OR & Supply Chain	70	20	10	30	10	10	150	3	1	2	6	
4	ME -7004	Elective-III	70	20	10	-	-	-	100	3	1	-	4	
5	ME -7005	Elective-IV	70	20	10	-	-	-	100	3	1	-	4	
6	ME -7006	Project -I	-	-		60	20	20	100	-	-	4	4	
7	ME -7007	Industrial Training (Two weeks)	-	-	-	30	10	10	50	-	-	2	2	
			350	100	50	180	60	60	800	15	5	12	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-III		Department Elective-IV	
S. No.	Subject Name	Subject Name	
1	Machine Tool Design	Robotics	
2	Reliability Engineering	Power Technology	
3	Ergonomics	Enterprise Resource Planning, ERP	

**Semester VIII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Civil Engineering)

**Subject wise distribution of marks and corresponding credits****Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment/ Quiz/Term paper						
1	<b>CE-8001</b>	Advanced Structural Design-II (Steel)	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	<b>CE-8002</b>	Geo-Technical Engineering -II	70	20	10	30	10	10	150	3	1	2	6	
3	<b>CE-8003</b>	Elective-V	70	20	10	-	-	-	100	3	1	-	4	
4	<b>CE-8004</b>	Elective-VI	70	20	10	-	-	-	100	3	1	-	4	
5	<b>CE-8005</b>	Project -II	-	-	-	120	40	40	200	-	-	8	8	
6	<b>CE-8006</b>	Non-Destructive Testing (NDT)	-	-	-	-	-	50	50	-	-	2	2	
7	<b>CE-8007</b>	Group Discussion (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	Total Marks
			280	80	40	180	60	160	800	12	4	16	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-V		Department Elective-VI	
S. No.	Subject Name	Subject Name	
1	Pre-stress Concrete Design	Sustainable Design & Construction	
2	Traffic Engineering	Waste disposal & Management	
3	Urban Transportation Planning	Geo-Informatics	
4	Disaster Risk Management	Finite Element Method	

**Semester VIII****Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Computer Science &amp; Engineering)

Subject wise distribution of marks and corresponding credits**Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment/ Quiz/Term paper						
1	<b>CS-8001</b>	Soft Computing	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	<b>CS-8002</b>	Cloud Computing	70	20	10	30	10	10	150	3	1	2	6	
3	<b>CS-8003</b>	Elective-V	70	20	10	-	-	-	100	3	1	-	4	
4	<b>CS-8004</b>	Elective-VI	70	20	10	-	-	-	100	3	1	-	4	
5	<b>CS-8005</b>	Project -II	-	-	-	120	40	40	200	-	-	8	8	
6	<b>CS-8006</b>	Lab (Elective-V)	-	-	-	-	-	50	50	-	-	2	2	
7	<b>CS-8007</b>	Group Discussion (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	Total Marks
			280	80	40	180	60	160	800	12	4	16	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-V		Department Elective-VI	
S. No.	Subject Name	Subject Name	
1	Machine Learning	Cyber Law & Ethics	
2	Data Mining	Augmented & Virtual Reality	
3	Computer Peripherals & Interfaces	Advance Computer Networks	

**Semester VIII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Electronics and communication Engineering)

Subject wise distribution of marks and corresponding credits**Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment/ Quiz/Term paper						
1	<b>EC-8001</b>	VLSI Design	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	<b>EC-8002</b>	Advanced Communication System	70	20	10	30	10	10	150	3	1	2	6	
3	<b>EC-8003</b>	Elective-V	70	20	10	-	-	-	100	3	1	-	4	
4	<b>EC-8004</b>	Elective-VI	70	20	10	-	-	-	100	3	1	-	4	
5	<b>EC-8005</b>	Project -II	-	-	-	120	40	40	200	-	-	8	8	
6	<b>EC-8006</b>	Departmental Choice (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	
7	<b>EC-8007</b>	Group Discussion (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	Total Marks
			280	80	40	180	60	160	800	12	4	16	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-V		Department Elective-VI
S. No.	Subject Name	Subject Name
1	Principles Management & Economics	Advanced Digital Signal Processing
2	Mobile Computing	Cyber Security & IOT
3	Digital Control System	Radar Engineering

**Semester VIII**

**Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**  
**Credit Based Grading System (CBGS) w.e.f. July 2018**

**Scheme of Examination**

**Bachelor of Engineering B.E. (Electrical & Electronics Engineering)**

**Subject wise distribution of marks and corresponding credits**

**Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.	Total Credits	Remarks		
			Theory			Practical			Total Marks					
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment/ Quiz/Term paper						
1	<b>EX-8001</b>	Computer-Aided Design of Electrical Machines	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	<b>EX-8002</b>	Power quality Problems and mitigation Techniques	70	20	10	30	10	10	150	3	1	2	6	
3	<b>EX-8003</b>	Elective-V	70	20	10	-	-	-	100	3	1	-	4	
4	<b>EX-8004</b>	Elective-VI	70	20	10	-	-	-	100	3	1	-	4	
5	<b>EX-8005</b>	Project -II	-	-	-	120	40	40	200	-	-	8	8	
6	<b>EX-8006</b>	Departmental Choice (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	
7	<b>EX-8007</b>	Group Discussion (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	
			280	80	40	180	60	160	800	12	4	16	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-V		Department Elective-VI
S. No.	Subject Name	Subject Name
1	Objected Oriented Methodologies C & C++	VLSI circuits and systems
2	Soft computing techniques and applications	Power Electronics Converters for Renewable Energy
3	Special Machine	Environmental Issues, Policy, Standards & Regulations

**Semester VIII****Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Information Technology)

**Subject wise distribution of marks and corresponding credits****Scheme of Examination w.e.f. July-2018, Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment/ Quiz/Term paper						
1	<b>IT-8001</b>	Information Security	70	20	10	30	10	10	150	3	1	2	6	
2	<b>IT -8002</b>	Soft Computing	70	20	10	30	10	10	150	3	1	2	6	
3	<b>IT -8003</b>	Elective-V	70	20	10	-	-	-	100	3	1	-	4	
4	<b>IT -8004</b>	Elective-VI	70	20	10	-	-	-	100	3	1	-	4	
5	<b>IT-8005</b>	Project-II	-	-	-	120	40	40	200	-	-	8	8	
6	<b>IT-8006</b>	Lab (Elective – VI)	-	-	-	-	-	50	50	-	-	2	2	
7	<b>IT-8007</b>	Group Discussion (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	
			280	80	40	180	60	160	800	12	4	16	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-V		Department Elective-VI	
S. No.	Subject Name	S. No.	Subject Name
1	Digital Image Processing	1	Data Mining & Warehousing
2	Data Science	2	Internet of Things
3	Information theory and coding	3	Unix & Shell Programming

**Semester VIII****Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal**

Credit Based Grading System (CBGS) w.e.f. July 2018

Scheme of Examination

Bachelor of Engineering B.E. (Mechanical Engineering)

**Subject wise distribution of marks and corresponding credits****Scheme of Examination w.e.f. July-2018 Academic Session-2018-19**

S. No.	Subject Code	Subject Name & Title	Maximum Marks Allotted							Hours / week.			Total Credits	Remarks
			Theory			Practical			Total Marks	L	T	P		
			End Sem	Mid Sem. MST	Quiz, Assignment	End Sem.	Lab Work	Assignment/ Quiz/Term paper						
1	ME-8001	Advance Machine Design	70	20	10	30	10	10	150	3	1	2	6	One credit refers to one hour teaching in theory, Tutorial and in practical.
2	ME-8002	Refrigeration & Air conditioning	70	20	10	30	10	10	150	3	1	2	6	
3	ME-8003	Elective-V	70	20	10	-	-	-	100	3	1	-	4	
4	ME-8004	Elective-VI	70	20	10	-	-	-	100	3	1	-	4	
5	ME-8005	Project -II	-	-	-	120	40	40	200	-	-	8	8	
6	ME-8006	Automobile Engineering (Lab)	-	-	-	-	-	50	50	-	-	2	2	
7	ME-8007	Group Discussion (Internal Assessment)	-	-	-	-	-	50	50	-	-	2	2	Total Marks
			280	80	40	180	60	160	800	12	4	16	32	800

MST: Minimum of two mid semester tests to be conducted.

L: Lecture

T: Tutorial

P: Practical

Department Elective-V		Department Elective-VI	
S. No.	Subject Name	Subject Name	
1	Tribology	Optimization Technique	
2	Failure analysis & Trouble Shooting	Product Design	
3	Advance Machining Process	Maintenance Management	