

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year.

HEI Inputs: 66

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Civil Engineering Department





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Internship – I (60 Hrs Duration) at the Institute Level

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

I Semester (Group A)

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				Contact Hours per week			Total Credits				
				End Sem.	Mid Sem.	Quiz/Assignment	End Sem.	Practical Lab work & Sessional	L	T		P			
Mandatory Induction Program (First three weeks)															
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 Unnat Bharat Abhayan (100Hrs)/ Rural Outreach				15	10	25	-	-	4	2		
			Total	350	100	50	150	100	750	13	1	14	21		



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



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

II Semester (Group A)

DEF-JULY 2018

GROUP A: (CS, IT, EE, EX, EL, 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 Lab work & Sessional	End Sem.	Quiz/ Assignme nt		L	T	P				
				End Sem. Exam.	Mid Sem Exam.											
1.	BT201	BSC-3	Engineering Physics	70	20	20	10	30	20	2	1	2	4			
2.	BT202	BSC-4	Mathematics-II	70	20	20	10	-	-	3	1	-	4			
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	20	10	30	20	3	-	2	4			
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	20	10	30	20	3	-	2	4			
5.	BT205	ESC-6	Basic Computer Engineering	70	20	20	10	30	20	3	-	2	4			
6.	BT206	HSMC-2	Language Lab & Seminars	-	-	-	-	30	20	-	-	2	1			
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level													
Total				350	100	50	50	150	100	14	2	10	21			

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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



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Swachh Bharat Summer Internship / Rural Outreach

Rajiv Gandhi Proudvoigiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
 Bachelor of Technology (B.Tech.)
12.3.2018

I Semester (Group B)

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

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				End Sem. Exam.	Mid Sem Exam.	Quiz/ Assignm ent	End Sem. & Sessional		Practical Slot	L	T		P
Mandatory Induction Program (First three weeks)													
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										
Total				350	100	50	150	100	750	14	2	10	21

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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

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

II Semester (Group B)

17/27 JULY 2018

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

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits							
				Theory			Practical			Total Marks	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	ESMC-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.									-	-	4	2				
8.	BT108	DLC-2	Swarth Bharat Summer Internship Unnat Bharat Abhyaan (100Hrs)/ Rural Outreach										15	10	25	-	-	1	14	21
			Total	350	100	50	150	100	750	13	1	14	21							



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

90 Hrs Internship (Internship -II)

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Civil Engineering]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits	
				Theory		End Sem	Quiz/ Assignment	Term work Lab Work & Sessional	L	T		P
				End Sem.	Mid Sem. Exam.							
1.	BT301	BSC-5	Mathematics-III	70	20	-	10	-	3	1	-	4
2.	CE302	DC-1	Construction Materials	70	20	-	10	-	3	1	-	4
3.	CE303	DC-2	Surveying	70	20	30	10	20	3	-	2	4
4.	CE304	DC-3	Building Planning & Architecture	70	20	30	10	20	3	-	2	4
5.	CE305	DC-4	Strength of Materials	70	20	30	10	20	3	-	2	4
6.	CE306	DLC-3	Study of Historical & Ancient Civil Engineering Practices	-	-	30	-	20	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	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.								
			Total	350	100	120	50	130	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course								
	NC301		NSS/NCC									

*Students can earn additional credits from the University recognized MOOC courses.



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

IV Semester **Bachelor of Technology (B.Tech.) [Civil Engineering]** **For batches admitted in July, 2020 (w.e.f Jan, 2022)**

S. No	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits		
				Theory			Practical			Total Marks	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	20	150	2	1	2	4	
3.	CE403	DC	Structural Analysis-I	70	20	10	30	20	20	150	3	1	2	5	
4.	CE404	DC	Transportation Engineering-I	70	20	10	30	20	20	150	3	1	2	5	
5.	CE405	DC	Engineering Geology & Remote Sensing	70	20	10	30	20	20	150	3	0	2	4	
6.	CE406	DLC*	Software Lab	-	-	-	30	20	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.											
			Total	350	100	50	150	100	100	750	14	4	12	24	
8.	BT408	MC	Cyber Security	Non-credit course											
9.	BT409I	MC	Indian Knowledge System	Non-credit course											
	NC001		NSS/NCC	Non-credit course											

*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.

*Students can earn additional credits from the University recognized MOOC courses.



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



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NSS/ NCC

III Semester **Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal** New Scheme of Examination as per AICTE Flexible Curricula Bachelor of Technology (B.Tech.) [Civil Engineering]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks			Contact Hours per week			Total Credits
				Theory		End Sem	Practical Term work Lab Work & Sessional	End Sem	L	T	P			
				End Sem.	Mid Sem. Exam.							Quiz/ Assignment		
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	150	3	-	2	4		
4.	CE304	DC-3	Building Planning & Architecture	70	20	10	30	150	3	-	2	4		
5.	CE305	DC-4	Strength of Materials	70	20	10	30	150	3	-	2	4		
6.	CE306	DLC-3	Study of Historical & Ancient Civil Engineering Practices	-	-	-	30	50	-	-	4	2		
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	-	-	4	2		
8.	BT307	DLC-4	90 hrs Internship based on using various softwares -Internship -II	-	-	-	-	-	-	-	-	-		
Total				350	100	50	120	750	15	2	14	24		
9.	BT308	MC	Indian Constitution	Non-credit course										
	NC301		NSS/NCC	Non-credit course										

To be completed anytime during Third/ Fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.



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

Rajiv Gandhi Proudhgyiki Vishwavidyalaya, Bhopal
Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Civil Engineering]

IV Semester

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits	
				Theory		Practical		Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.					
1.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	100	3	1	-	4
2.	CE402	DC	Construction Technology	70	20	10	30	150	2	1	2	4
3.	CE403	DC	Structural Analysis-I	70	20	10	30	150	3	1	2	5
4.	CE404	DC	Transportation Engineering-I	70	20	10	30	150	3	1	2	5
5.	CE405	DC	Engineering Geology & Remote Sensing	70	20	10	30	150	3	0	2	4
6.	CE406	DLC*	Software Lab	-	-	-	30	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	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course								
9.	BT409I	MC	Indian Knowledge System	Non-credit course								
	NC001		NSS/NCC	Non-credit course								

*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.

*Students can earn additional credits from the University recognized MOOC courses.



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



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Field Visit, Case Study and Seminar

Rajiv Gandhi Proudvyogiki 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		End Sem	Quiz/ Assignment	Practical		L	T	P				
				End Sem.	Mid Sem. Exam.			Term work Lab Work & Sessional								
1.	CE-501	DC	Fluid Mechanics I	70	20	30	10	20	2	1	2	4				
2.	CE-502	DC	Transportation Engg II	70	20	30	10	20	2	1	2	4				
3.	CE-503	DE	Departmental Elective	70	20	-	10	-	4	-	-	4				
4.	CE-504	OE	Open Elective	70	20	-	10	-	3	-	-	3				
5.	CE-505	D Lab	Quantity surveying & Costing	-	-	30	-	20	-	-	4	2				
6.	CE-506	O/E Lab	Material Testing Lab	-	-	30	-	20	-	-	4	2				
7.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	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	-	-	4	2				
10.	Additional Credits ^a			<i>Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.</i>						-	-	-	-			
Total				280	80	120	40	230	750	11	2	22	24			

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



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

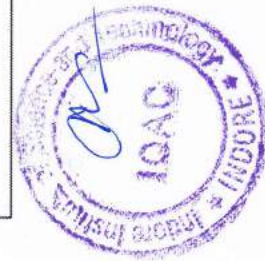
Internship III

Rajiv Gandhi Proudlyogiki 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					Contact Hours per week			Total Credits	
				Theory		End Sem	Quiz/ Assignment	Term work Lab Work & Sessional	Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.								
1.	CE-501	DC	Fluid Mechanics I	70	20	30	10	20	2	1	2	4	
2.	CE-502	DC	Transportation Engg II	70	20	30	10	20	2	1	2	4	
3.	CE-503	DE	Departmental Elective	70	20	-	10	-	4	-	-	4	
4.	CE-504	OE	Open Elective	70	20	-	10	-	3	-	-	3	
5.	CE-505	D Lab	Quantity surveying & Costing	-	-	30	-	20	-	-	4	2	
6.	CE-506	O/E Lab	Material Testing Lab	-	-	30	-	20	-	-	4	2	
7.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	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	-	-	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	120	40	230	11	2	22	24	

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



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

Rajiv Gandhi Proudlyogiki 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						Contact Hours per week			Total Credits	
				Theory			Practical			L	T	P		Total Marks
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem	Term work Lab Work & Sessional	Total Credits					
1.	CE 601	DC	Structural Design and Drawing (RCC-I)	70	20	10	30	20	2	1	2	4		
2.	CE 602	DC	Environmental Engineering I	70	20	10	30	20	2	1	2	4		
3.	CE 603	DE	Departmental Elective	70	20	10	-	-	4	-	0	4		
4.	CE 604	OE	Open Elective	70	20	10	-	-	4	-	0	4		
5.	CE 605	D Lab	Advance surveying lab	-	-	-	30	20	-	-	6	3		
6.	CE 606	O/E Lab	Non Destructive Testing Lab	-	-	-	30	20	-	-	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	-	-	4	2		
9.	Additional Credits ²			² Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective U/G level.										
	Total			280	80	40	120	130	12	2	20	24		

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



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Minor Project II

Rajiv Gandhi Proudhyogiki 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						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	Total Marks				
1.	CE 601	DC	Structural Design and Drawing (RCC-I)	70	20	10	30	20	2	1	2	4	
2.	CE 602	DC	Environmental Engineering I	70	20	10	30	20	2	1	2	4	
3.	CE 603	DE	Departmental Elective	70	20	10	-	-	4	-	0	4	
4.	CE 604	OE	Open Elective	70	20	10	-	-	4	-	0	4	
5.	CE 605	D Lab	Advance surveying lab	-	-	-	30	20	-	-	6	3	
6.	CE 606	O/E Lab	Non Destructive Testing Lab	-	-	-	30	20	-	-	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	-	-	4	2	
9.	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	130	12	2	20	24	

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

Major Project I

Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula Bachelor of Technology (B.Tech.) [Civil Engineering] [w.e.f. July, 2020]

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional						
1.	CE-701	DC	Geotechnical Engg	70	20	10	30	20	150	2	1	2	4	
2.	CE-702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4	
3.	CE-703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3	
4.	CE-704	D Lab	Prestressed Concrete Structures Lab	-	-	-	30	20	50	-	-	6	3	
5.	CE-705	O/E Lab	IoT Lab	-	-	-	30	20	50	-	-	6	3	
6.	CE-706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4	
7.	CE-607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3	
8.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level										UG	
Total				210	60	30	190	210	700	8	2	28	24	

Departmental Electives		Open Electives
702 (A) Prestressed Concrete Structures		703 (A) Internet of Things
702 (B) Environmental Engg-II		703 (B) Project Management
702 (C) Structural Dynamics		703 (C) Integrated Waste Management
702 (D) Structural Design and Drawing (RCC-II)		703 (D) Building Services



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Major Project II

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Civil Engineering] [w.e.f. Jan, 2021]

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						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	Total Marks				
1.	CE-801	DC	Design of Steel Structures	70	20	10	30	20	2	1	2	4	
2.	CE-802	DE	Departmental Elective	70	20	10	-	-	3	1	-	4	
3.	CE-803	OE	Open Elective	70	20	10	-	-	3	-	-	3	
4.	CE-804	D/O/E Lab	Earthquake Resistant Structures Lab	-	-	-	30	20	-	-	6	3	
5.	CE-805	P	Major Project-II	-	-	-	70	30	-	-	8	4	
6.	Additional Credits*												UG
Total				210	60	30	130	70	8	2	16	18	

*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.

Departmental Electives	Open Electives
802(A) Engineering Hydrology	803(A) Artificial Intelligence
802 (B) Foundation Engineering	803(B) Data Analytics
802 (C) Bridge Engineering	803(C) Retrofitting and Rehabilitation of Structures
802 (D) Earthquake Resistant Design of Structures	803 (D) Integrated Water Management



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Electronics and Communication Engineering Department





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

Internship – I (60 Hrs Duration) at the Institute Level

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

I Semester (Group A)

22EF-JULY-2016

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

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	L	T		P
				End Sem.	Mid Sem.	Quiz/ Assignm nt	End Sem.	Lab work & Sessional						
Mandatory Induction Program (First three weeks)														
Fourth week onwards classes will start														
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	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	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	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	Sanchh Bhami Summer Internship Unnat Bharat Abhiyan (100Hrs)/ Rural Outreach				15	10	10	25	-	-	4	2
			Total	350	100	50	150	100	100	750	13	1	14	21



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

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

II Semester (Group A)

19/12/2018

GROUP A: (CS, IT, EE, EX, EL, FT, AT, ML, BT, & BM)

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits
				Theory Slot		Practical Slot		Total Marks	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										
Total				350	100	50	150	100	750	14	2	10	21

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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

Swachh Bharat Summer Internship / Rural Outreach

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

I Semester (Group B)

~~2019-2020~~

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	
				End Sem. Exam.	Mid Sem. Exam.	Quiz/ Assignme nt	Practical Slot		End Sem. & Sessional	L	T		P
Mandatory Induction Program (First three weeks)													
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	RSMC-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.									
				350	100	50	150	100	750	14	2	10	21



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

Rajiv Gandhi Proudvogiki 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						Contact Hours per week			Total Credits
				Theory		Practical		Total Marks	L	T	P		
				End Sem.	Mid Sem.	Quiz/Assignment	End Sem. & 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	Special Exam: Summer Internship Umant Bhanu Abhayam (100Hrs) Rural Outreach				15	10	25	-	-	4	2
Total				350	100	50	150	100	750	13	1	14	21



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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90 Hrs Internship (Internship -II)

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]

III Semester

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits		
				Theory		Practical		Total Marks	L	T	P			
End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem	Term work Lab Work & Sessional	End Sem	End Sem	End Sem					End Sem	End Sem	End Sem
1.	BT301	BSC-5	Mathematics-III	70	20	10	-	-	-	100	3	1	-	4
2.	EC302	DC-1	Electronic Measurement & Instrumentation	70	20	10	-	-	-	100	3	1	-	4
3.	EC303	DC-2	Digital System Design	70	20	10	30	20	20	150	3	-	2	4
4.	EC304	DC-3	Electronic Devices	70	20	10	30	20	20	150	3	-	2	4
5.	EC305	DC-4	Network Analysis	70	20	10	30	20	20	150	3	-	2	4
6.	EC306	DLC-3	EMI Lab	-	-	-	30	20	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	50	50	-	-	4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's - Internship-II	-	-	-	-	-	-	-	-	-	-	-
Total				350	100	50	120	130	750	15	2	14	24	
Indian Constitution				Non-credit course										
9.	BT308	MC	Indian Constitution											
	NC301		NSS/NCC											

To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.



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

Rajiv Gandhi Proudhyogiki 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, 2020 (w.e.f Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits		
				Theory			Practical			Total Marks	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	20	150	2	1	2	2	4
3.	EC403	DC	Analog Communication	70	20	10	30	20	20	150	3	1	2	2	5
4.	EC404	DC	Control System	70	20	10	30	20	20	150	3	1	2	2	5
5.	EC405	DC	Analog Circuits	70	20	10	30	20	20	150	3	0	2	2	4
6.	EC406	DLC*	Simulation Lab	-	-	-	30	20	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.											
Total				350	100	50	150	100	100	750	14	4	12	24	3
8.	BT408	MC	Cyber Security	Non-credit course											
9.	BT409I	MC	Indian Knowledge System	Non-credit course											
	NC001		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.

*Students can earn additional credits from the University recognized MOOC courses.



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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NSS/ NCC

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula III Semester Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits		
				Theory		End Sem	Quiz/ Assignment	End Sem	Practical		L		T	P
				End Sem.	Mid Sem. Exam.				Term work Lab Work & Sessional	Total Marks				
1.	BT301	BSC-5	Mathematics-III	70	20	-	10	-	-	3	1	-	4	
2.	EC302	DC-1	Electronic Measurement & Instrumentation	70	20	-	10	-	-	3	1	-	4	
3.	EC303	DC-2	Digital System Design	70	20	30	10	20	30	3	-	2	4	
4.	EC304	DC-3	Electronic Devices	70	20	30	10	20	30	3	-	2	4	
5.	EC305	DC-4	Network Analysis	70	20	30	10	20	30	3	-	2	4	
6.	EC306	DLC-3	EMI Lab	-	-	30	-	20	30	-	-	4	2	
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	-	-	-	4	2	
8.	BT307	DLC-4	90 hrs Internship based on using various software's -Internship-II	-	-	-	-	-	-	-	-	4	2	
Total				350	100	120	50	130	750	15	2	14	24	
9.	BT308	MC	Indian Constitution	Non-credit course										
NC301				NSS/NCC										

To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.



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

Rajiv Gandhi Proudhyogiki 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, 2020 (w.e.f Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits		
				Theory			Practical			Total Marks	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	20	150	2	1	2	2	4
3.	EC403	DC	Analog Communication	70	20	10	30	20	20	150	3	1	2	2	5
4.	EC404	DC	Control System	70	20	10	30	20	20	150	3	1	2	2	5
5.	EC405	DC	Analog Circuits	70	20	10	30	20	20	150	3	0	2	2	4
6.	EC406	DLC*	Simulation Lab	-	-	-	30	20	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.											
Total				350	100	50	150	100	100	750	14	4	12	24	24
8.	BT408	MC	Cyber Security	Non-credit course											
9.	BT409I	MC	Indian Knowledge System	Non-credit course											
	NC001		NSS/NCC	Non-credit course											

*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.

*Students can earn additional credits from the University recognized MOOC courses.



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

Minor Project – I

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)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory		Practical			Total Marks	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.	BT-407	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 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	11	2	22	24

Departmental Electives		Open Electives	
EC 503 (A) CNTI		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	



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

Internship III

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

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits		
				Theory		Practical		Total Marks	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	2	1	2	4	
2.	EC 502	DC	Digital Communication	70	20	10	30	20	2	1	2	4	
3.	EC 503	DE	Departmental Elective	70	20	10	-	-	4	-	0	4	
4.	EC 504	OE	Open Elective	70	20	10	-	-	3	-	0	3	
5.	EC 505	D Lab	CNTL Lab	-	-	-	30	20	-	-	4	2	
6.	EC 506	O/E Lab	Matlab Programming	-	-	-	30	20	-	-	4	2	
7.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	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 I	-	-	-	-	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 U/G level.										
Total				280	80	40	120	230	750	11	2	22	24

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



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

Rajiv Gandhi Proudlyogiki 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					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	2	1	2	4
2.	EC602	DC	Antenna & Wave propagation	70	20	10	30	20	2	1	2	4
3.	EC603	DE	Departmental Elective	70	20	10	-	-	4	-	0	4
4.	EC604	OE	Open Elective	70	20	10	-	-	4	-	0	4
5.	EC605	D Lab	Data Communication Lab	-	-	-	30	20	-	-	6	3
6.	EC606	O/E Lab	Microcontroller & Embedded system	-	-	-	30	20	-	-	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	-	-	4	2
9.	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	130	12	2	20	24

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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Minor Project II

Rajiv Gandhi Proudvyogiki 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						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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*	*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) 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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

Major Project I

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. July, 2020)

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits			
				Theory		End Sem	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional	L		T	P	
				End Sem.	Mid Sem. Exam.									Total Marks
1.	EC701	DC	VLSI Design	70	20	30	10	30	20	2	1	2	4	
2.	EC702	DE	Departmental Elective	70	20	-	10	-	-	3	1	-	4	
3.	EC703	OE	Open Elective	70	20	-	10	-	-	3	0	0	3	
4.	EC704	D Lab	Microwave Lab	-	-	30	-	30	20	-	-	6	3	
5.	EC705	O/E lab	I.O.T. Lab	-	-	30	-	30	20	-	-	6	3	
6.	EC706	P	Major Project-I	-	-	100	-	100	50	-	-	8	4	
7.	EC607		Evaluation of Internship -III	-	-	-	-	-	100	-	-	6	3	
8.	Additional Credits*		<i>*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective Level.</i>											
Total				210	60	190	30	190	210	700	8	2	28	24

Departmental Electives		Open Electives	
702(A) Microwave Engg.		703(A) Cellular Mobile Communication	
702 (B) Information Theory & Coding		703(B) Internet of Things	
702 (C) Nano Electronics		703(C) Probability Theory & Stochastic Processor	



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



Major Project II

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Electronics & Communication Engg.] [w.e.f. Jan, 2021]

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted							Contact Hours per week			Total Credits	
				Theory			Practical				Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem	Term work Lab Work & Sessional							
1.	EC 801	DC	Optical Fibre Communication	70	20	10	30	20		150	2	1	2	4	
2.	EC 802	DE	Departmental Elective	70	20	10	-	-		100	3	1	-	4	
3.	EC 803	OE	Open Elective	70	20	10	-	-		100	3	-	-	3	
4.	EC804	D/O/E Lab	Advanced Communication Engg. Lab	-	-	-	30	20		50	-	-	6	3	
5.	EC 805	P	Major Project-II	-	-	-	70	30		100	-	-	8	4	
6.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.											UG	
Total				210	60	30	130	70	500	8	2	16	18		

Departmental Electives	
802(A) AI & Signal Processing	803(A) Wireless Network
802 (B) Wireless Communication	803(B) Digital Image Processing
802 (C) 5G Technology	803(C) Speech Processing

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





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Mechanical Engineering Department





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Internship – I (60 Hrs Duration) at the Institute Level

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

W.E.F. JULY 2013

I 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				Contact Hours per week			Total Credits				
				End Sem.	Mid Sem.	Quiz/ Assignments	Practical Lab work & Sessional	Total Marks	L	T		P			
Mandatory Induction Program (First three weeks)															
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	Sancha Bharat Summer Internship Unnat Bharat Abhiyan (100Hrs) Rural Outreach				15	10	25	-	-	4	2		
			Total	350	100	50	150	100	750	13	1	14	21		



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

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

II Semester (Group A)

12 FEB 2018

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

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory Slot		Practical Slot End Sem. & Sessional	Total Marks	L	T	P			
				End Sem.	Mid Sem Exam.						Quiz/Assignment		
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										
Total				350	100	50	150	100	750	14	2	10	21

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Swachh Bharat Summer Internship / Rural Outreach

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

~~2019-2020~~

I Semester (Group B)

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	
				End Sem.	Mid Sem Exam.	Quiz/ Assignm nt	End Sem.		Practical Slot Lab work & Sessional	L	T		P
Mandatory Induction Program (First three weeks)													
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-3	Language Lab & Seminars	-	-	-	30	20	50	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level										
Total				350	100	50	150	100	750	14	2	10	21

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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

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

II Semester (Group B)

27 FEB 2013

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

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory		Practical		Total Marks	L	T	P		
				End Sem.	Mid Sem.	Quiz/ Assignme nt	End Sem.						Lab work & Sessional
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT102	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 Uttar Bharat Abhiyan (100Hrs) Rural Outreach	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
			Total	350	100	50	150	100	750	13	1	14	21



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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90 Hrs Internship (Internship -II)

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

III Semester

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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	20	150	3	-	2	4
4.	ME304	DC-3	Strength of Material	70	20	10	30	20	20	150	3	-	2	4
5.	ME305	DC-4	Manufacturing Process	70	20	10	30	20	20	150	3	-	2	4
6.	ME306	DLC-3	Thermal Engg Lab	-	-	-	30	20	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I Year Level	-	-	-	-	50	50	50	-	-	4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's - Internship-II	-	-	-	-	-	-	-	-	-	4	2
Total				350	100	50	120	130	750	15	2	14	24	
9.	BT308	MC	Indian Constitution	Non-credit course										
	NC301		NSS/NCC	Non-credit course										

To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.



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

Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal
Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Mechanical Engineering]

IV Semester

For batches admitted in July, 2020 (w.e.f Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory		Practical			Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem.	Term work					
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 - 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									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC	Non-credit course									

*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.

*Students can earn additional credits from the University recognized MOOC courses.



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



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NSS/NCC

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

III Semester

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits	
				Theory		Practical		Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem					
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	150	3	-	2	4
4.	ME304	DC-3	Strength of Material	70	20	10	30	150	3	-	2	4
5.	ME305	DC-4	Manufacturing Process	70	20	10	30	150	3	-	2	4
6.	ME306	DLC-3	Thermal Engg Lab	-	-	-	30	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 Year Level	-	-	-	-	50	-	-	4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's -Internship -II	-	-	-	-	50	-	-	4	2
Total				350	100	50	120	750	15	2	14	24
Indian Constitution				Non-credit course								
NC301				NSS/NCC								

To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.

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



(Handwritten signature)

Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal
Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Mechanical Engineering]

IV Semester

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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	-	-	-	-	3	1	-	4
2.	ME402	DC	INSTRUMENTATION & CONTROL	70	20	10	30	20	20	2	1	2	2	4
3.	ME403	DC	THEORY OF MACHINES	70	20	10	30	20	20	3	1	2	2	5
4.	ME404	DC	FLUID MECHANICS	70	20	10	30	20	20	3	1	2	2	5
5.	ME405	DC	MANUFACTURING TECHNOLOGY	70	20	10	30	20	20	3	0	2	4	4
6.	ME406	DLC*	SOFTWARE LAB	-	-	-	30	20	20	-	-	-	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	100	14	4	12	24	
8.	BT408	MC	Cyber Security	Non-credit course										
9.	BT409I	MC	Indian Knowledge System	Non-credit course										
	NC001		NSS/NCC	Non-credit course										

*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.

*Students can earn additional credits from the University recognized MOOC courses.



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

Minor Project 1

Rajiv Gandhi Proudvyogiki 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				Contact Hours per week			Total Credits	
				Theory		Practical	L	T	P			
				End Sem.	Mid Sem. Exam.					Quiz/ Assignment		End Sem
1.	ME 501	DC	IC Engines	70	20	10	30	20	3	-	2	4
2.	ME 502	DC	Mechanical Vibration	70	20	10	30	20	2	1	2	4
3.	ME 503	DE	Departmental Elective	70	20	10	-	-	4	-	-	4
4.	ME 504	OE	Open Elective	70	20	10	-	-	3	-	-	3
5.	ME 505	D Lab	FEM/CFD Lab	-	-	-	30	20	-	-	4	2
6.	ME 506	O/E Lab	Python	-	-	-	30	20	-	-	4	2
7.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	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 1	-	-	-	-	50	-	-	4	2
10.	Additional Credits*			*Additional credits can be earned through successful completion of credit based MODC's Courses available on SWAYAM platform (MHRD) at respective UG level.								
Total				280	80	40	120	230	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) IQM and SQC	
ME 503 (C) Alternate Automotive Fuels & Emissions		ME 504 (C) Finite Element Method	



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

Internship III

Rajiv Gandhi Proudvyogiki 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						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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.	BT 407	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 ¹			¹ 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	



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

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

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory		Quiz/Assignment	End Sem	Practical	Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.								
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 ^a	^a 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) 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

Minor Project II

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

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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	-	-	-	-	-	-	-	-	-	-	
8.	ME608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2	
9.	Additional Credits ^a		To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.											
				280	80	40	120	130	650	12	2	20	24	

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



Indore Institute of Science and Technology

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

Major Project I

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Mechanical Engineering] (w.e.f July, 2020)

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						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	Total Marks					
1.	ME 701	DC	Heat and Mass Transfer	70	20	10	30	20		150	2	1	2	4
2.	ME702	DE	Departmental Elective	70	20	10	-	-		100	3	1	-	4
3.	ME703	OE	Open Elective	70	20	10	-	-		100	3	0	0	3
4.	ME 704	D Lab	CAD/CAM/CIM	-	-	-	30	20		50	-	-	6	3
5.	ME 705	O/E lab	MATLAB and R Programming	-	-	-	30	20		50	-	-	6	3
6.	ME706	P	Major Project-I	-	-	-	100	50		150	-	-	8	4
7.	ME 607		Evaluation of Internship -III	-	-	-	-	100		100	-	-	6	3
8.	Additional Credits*													
				Total	210	60	30	190	210	700	8	2	28	24

*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.

Departmental Electives		Open Electives	
702(A) Advance Machining Processes		703(A) Operation Research and Supply Chain	
702 (B) Internet of Things (IoT)		703(B) Artificial Intelligence Techniques	
702 (C) Power Plant Engineering		703(C) Systems Engineering	
702 (D) Advance Machine Design		703 (D) Reliability Engineering	



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

Major Project II

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
VIII Semester Bachelor of Technology (B.Tech.) [Mechanical Engineering] [w.e.f. Jan, 2021]

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem	Term work Lab Work & Sessional						
1.	ME 801	DC	Refrigeration & Air Conditioning	70	20	10	30	20	150	2	1	2	4	
2.	ME 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4	
3.	ME 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3	
4.	ME 804	D/O/E Lab	Simulation and Modeling	-	-	-	30	20	50	-	-	6	3	
5.	ME 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4	
6.	Additional Credits*													
				Total	210	60	30	130	70	500	8	2	16	18

* Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.

Departmental Electives		Open Electives	
802(A) Automobile Engineering		803(A) Data analytics	
802 (B) Tribology & Maintenance Engineering		803(B) Energy Conservation, Management & Audit	
802 (C) Machine Tool Design		803(C) Entrepreneurship and Management Concepts	
802 (D) Production Planning and Control		803 (D) Management Information System	



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



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Information Technology Department





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Internship – I (60 Hrs Duration) at the Institute Level

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

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

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits				
				End Sem.	Mid Sem.	Quiz/ Assignm ent	Practical Lab work & Sessional	Total Marks	L	T		P			
Mandatory Induction Program (First three weeks)															
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 Unnat Bharat Abhiyan (100Hrs)/ Rural Outreach				15	10	25	-	-	4	2		
		Total		350	100	50	150	100	750	13	1	14	21		



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

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

II Semester (Group A)

2021-2022

GROUP A: (CS, IT, EE, EX, EL, 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		End Sem.	Quiz/Assignme nt	End Sem.	Lab work & Sessional	Total Marks	L	T	P	
				End Sem.	Mid Sem Exam.	Mid Sem Exam.	End Sem.									
1.	BT201	BSC-3	Engineering Physics	70	20	20	10	30	20	150	2	1	2	4		
2.	BT202	BSC-4	Mathematics-II	70	20	20	10	-	-	100	3	1	-	4		
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	20	10	30	20	150	3	-	2	4		
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	20	10	30	20	150	3	-	2	4		
5.	BT205	ESC-6	Basic Computer Engineering	70	20	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													
Total				350	100	100	50	150	100	750	14	2	10	21		

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Swachh Bharat Summer Internship / Rural Outreach

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

I Semester (Group B)

2022-23

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		End Sem.	Quiz/ Assignm. at Exam.	End Sem.	Lab work & Sessional	L	T		P
				End Sem.	Mid Sem.	End Sem.	Lab work & Sessional								
Mandatory Induction Program (First three weeks)															
Fourth week onwards classes will start															
1.	BT201	BSC-3	Engineering Physics	70	20	10	10	30	20	150	2	1	2	4	
2.	BT102	BSC-2	Mathematics-I	70	20	10	10	-	-	100	3	1	-	4	
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	10	10	30	20	150	3	-	2	4	
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	10	10	30	20	150	3	-	2	4	
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	10	30	20	150	3	-	2	4	
6.	BT206	HSMC-1	Language Lab & Seminars	-	-	-	-	30	20	50	-	-	2	1	
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level												
Total				350	100	50	50	150	100	750	14	2	10	21	

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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



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

II Semester (Group B)

2022-23
2023

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

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits				
				Theory			Practical			Total Marks	L	T		P			
				End Sem.	Mid Sem.	Quiz/ Assignments	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	ESMC-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.									-	-	4	2	
8.	BT108	DLC-2	Swachh Bharat Summer Internship Unnat Bharat Abhiyan (100Hrs) Rural Outreach	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									-	-	1	14	21
			Total	350	100	50	150	100	750	13	1	14	21				



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



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90 Hrs Internship (Internship -II)

Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Information Technology]

III Semester

For batches admitted in July, 2020 (w.e.f July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits	
				Theory		Practical		Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem					
1.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	100	3	1	-	4
2.	IT302	DC-1	Discrete Structure	70	20	10	-	100	3	1	-	4
3.	IT303	DC-2	Data Structure	70	20	10	30	150	3	-	2	4
4.	IT304	DC-3	Object Oriented Programming & Methodology	70	20	10	30	150	3	-	2	4
5.	IT305	DC-4	Digital Circuits & System	70	20	10	30	150	3	-	2	4
6.	IT306	DLC-3	JAVA Programming Lab	-	-	-	30	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	-	-	4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's - Internship -II	-	-	-	-	50	-	-	4	2
			Total	350	100	50	120	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course								
	NC301		NSS/NCC	Non-credit course								

To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.



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, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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	20	150	3	1	2	5
4.	IT404	DC	Analog & Digital Communication	70	20	10	30	20	20	150	3	1	2	5
5.	IT405	DC	Data base Management System	70	20	10	30	20	20	150	3	0	2	4
6.	IT406	DLC*	Introduction to MATLAB, Scilab/Web Design	-	-	-	30	20	20	50	-	-	4	2
7.	IT407	DLC*	Open Source Software Lab (Linux and R)	-	-	-	30	20	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										
10.	BT409I		Indian Knowledge System	Non-credit course										
	NC001		NSS/NCC	Non-credit course										

*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.

*Students can earn additional credits from the University recognized MOOC courses.



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



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NSS/ NCC

Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula Bachelor of Technology (B.Tech.) [Information Technology]

For batches admitted in July, 2020 (w.e.f. July, 2021)

III Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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.	IT302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4	
3.	IT303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4	
4.	IT304	DC-3	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4	
5.	IT305	DC-4	Digital Circuits & System	70	20	10	30	20	150	3	-	2	4	
6.	IT306	DLC-3	JAVA Programming 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	-	-	-	-	-	50	-	-	4	2	
Total				350	100	50	120	130	750	15	2	14	24	
9.	BT308	MC	Indian Constitution	Non-credit course										
	NC301		NSS/NCC	Non-credit course										

To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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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, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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	20	150	3	1	2	5
4.	IT404	DC	Analog & Digital Communication	70	20	10	30	20	20	150	3	1	2	5
5.	IT405	DC	Data base Management System	70	20	10	30	20	20	150	3	0	2	4
6.	IT406	DLC*	Introduction to MATLAB, Scilab/Web Design	-	-	-	30	20	20	50	-	-	4	2
7.	IT407	DLC*	Open Source Software Lab (Linux and R)	-	-	-	30	20	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.										
Total				350	100	50	150	100	100	750	14	4	12	24
9.	BT409	MC	Cyber Security	Non-credit course										
10.	BT409I		Indian Knowledge System	Non-credit course										
	NC001		NSS/NCC											

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

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

Students can earn additional credits from the University recognized MOOC courses.



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



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Minor Project – I

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
V Semester Bachelor of Technology (B.Tech.) [Information Technology] (w.e.f July 2020) Revised

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				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	3	-	2	4	
2.	IT 502	DC	Computer Network	70	20	10	30	20	3	-	2	4	
3.	IT 503	DE	Departmental Elective-I	70	20	10	-	-	3	1	-	4	
4.	IT 504	OE	Open Elective-I	70	20	10	-	-	3	-	-	3	
5.	IT 505	D Lab	Advanced Java Lab	-	-	-	30	20	-	1	2	2	
6.	IT 506	HSMC Lab	Soft Skills and Interpersonal Communication	-	-	-	30	20	-	1	2	2	
7.	BT 407	IN	Evaluation of Internship-II					100				6	3
8.		IN	Internship-III										
9.	IT 508	P	Minor Project I/Seminar	-	-	-	-	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 U/G level.										
Total				280	80	40	120	230	750	12	3	18	24

To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.

Departmental Elective- I
 IT 503 (A) Theory of Computation
 IT 503 (B) Microprocessor & Interfacing
 IT 503 (C) Object Oriented Analysis and Design

Open Elective-1
 IT 504 (A) Artificial Intelligence
 IT 504 (B) E Commerce & Governance
 IT 504 (C) Java Programming



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Internship III

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula V Semester Bachelor of Technology (B.Tech.) [Information Technology] (w.e.f. July 2020) Revised

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			L	T	P		Total Marks
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem	Term work Lab Work & Sessional	Total Credits					
1.	IT 501	DC	Operating System	70	20	10	30	20	3	-	2	4		
2.	IT 502	DC	Computer Network	70	20	10	30	20	3	-	2	4		
3.	IT 503	DE	Departmental Elective-I	70	20	10	-	-	3	1	-	4		
4.	IT 504	OE	Open Elective-I	70	20	10	-	-	3	-	-	3		
5.	IT 505	D Lab	Advanced Java Lab	-	-	-	30	20	-	1	2	2		
6.	IT 506	HSMC Lab	Soft Skills and Interpersonal Communication	-	-	-	30	20	-	1	2	2		
7.	BT 407	IN	Evaluation of Internship-II	-	-	-	-	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	-	-	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	3	18	24	

Departmental Elective-I

- IT 503 (A) Theory of Computation
- IT 503 (B) Microprocessor & Interfacing
- IT 503 (C) Object Oriented Analysis and Design

Open Elective-I

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



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



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Rajiv Gandhi Proudlyogiki 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						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	Total Marks				
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	-	-	-	-	-	-	-	-	-	-
8.	IT608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	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	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



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Minor Project II

Rajiv Gandhi Proudlyogiki 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					Contact Hours per week			Total Credits	
				Theory		Practical		Total Marks	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*	*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
I Credit	I Credit	I Credit

Major Project I

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula Bachelor of Technology (B.Tech.) [Information Technology] (w.e.f. July, 2020)

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits
				Theory		Practical		L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem				
1.	IT-701	DC	Soft Computing	70	20	10	30	2	1	2	4
2.	IT-702	DE	Departmental Elective	70	20	10	-	3	1	-	4
3.	IT-703	OE	Open Elective	70	20	10	-	3	0	0	3
4.	IT-704	D Lab	Cloud Computing Lab	-	-	-	30	-	-	6	3
5.	IT-705	O/E lab	IoT Lab	-	-	-	30	-	-	6	3
6.	IT-706	P	Major Project-I	-	-	-	100	-	-	8	4
7.	IT-607		Evaluation of Internship -III	-	-	-	-	-	-	6	3
8.	Additional Credits*										
*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.											
9.			Total	210	60	30	190	210	210	28	24

Departmental Electives		Open Electives	
702(A) Data Science		703(A) Cyber Laws and Forensics	
702 (B) Cloud Computing		703(B) Internet of Things	
702 (C) Simulation and Modeling		703(C) Social Networks	
702 (D) Augmented and Virtual Reality		703 (D) Digital Image Processing	



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



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Major Project II

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula VIII Semester Bachelor of Technology (B.Tech.) Information Technology (w.e.f. Jan, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits		
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem	Practical	Term work Lab Work & Sessional	L		T	P
1.	IT-801	DC	Information Security	70	20	10	30	20			2		
2.	IT-802	DE	Departmental Elective IV	70	20	10	-	-	3	1	-	4	
3.	IT-803	OE	Open Elective IV	70	20	10	-	-	3	-	-	3	
4.	IT-804	D/C/E Lab	Machine Learning Lab	-	-	-	30	20	-	-	6	3	
5.	IT-805	P	Major Project-II	-	-	-	70	30	-	-	8	4	
6.	Additional Credits ²												
7.			Total	210	60	30	130	70	500	8	2	16	18

¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.

Departmental Electives		Open Electives	
802(A) Machine Learning	803(A) Blockchain Technology		
802 (B) Natural Language Processing	803(B) Human Computer Interaction		
802 (C) Robotics	803(C) 3D Printing and Design		
802 (D) Quantum Computing	803 (D) Parallel Computing		



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



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Computer Science and Engineering Department





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Internship – I (60 Hrs Duration) at the Institute Level

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

I Semester (Group A)

PERIODS

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

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits				
				End Sem.	Mid Sem.	Quiz/ Assignme at	End Sem. Practical Lab work & Sessional	Total Marks	L	T		P			
Mandatory Induction Program (First three weeks)															
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 Unnat Bharat Abhyaan (100Hrs)/ Rural Outreach								15	10	-	4	2
Total				350	100	50	150	100	750	13	1	14	21		



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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

II Semester (Group A)

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						Contact Hours per week			Total Credits
				Theory Slot		Practical Slot		Total Marks	L	T	P		
				End Sem. Exam.	Mid Sem. Exam.	Quiz/Assignme nt	End Sem. & 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.									
Total				350	100	50	150	100	750	14	2	10	21

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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Swachh Bharat Summer Internship / Rural Outreach

Rajiv Gandhi Proudvoiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.)
2020-21

I Semester (Group B)

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/ Assignm ent	End Sem.	Lab work & Sessional					
Mandatory Induction Program (First three weeks)													
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										
Total				350	100	50	150	100	750	14	2	10	21

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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

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

II Semester (Group B)

14 FEB 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 Lab work & Sessional	End Sem.	Quiz/ Assignme nt	End Sem.	L	T	P			
				End Sem.	Mid Sem.										
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 Umast Bharat Abhayan (100Hrs) Rural Outreach	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.											
Total				350	100	50	150	100	750	13	1	14	21		



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



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90 Hrs Internship (Internship -II)

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Computer Science and Engineering/
Computer Engineering/Computer Science & Technology]

III Semester

[For batches admitted in July, 2020 (w.e.f. July, 2021)]

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits				
				Theory		End Sem	Practical	Total Marks	L	T		P			
				End Sem.	Mid Sem. Exam.								Quiz/Assignment	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	150	3	-	2	4			
4.	CS304	DC-3	Digital Systems	70	20	10	30	150	3	-	2	4			
5.	CS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	150	3	-	2	4			
6.	CS306	DLC-3	Computer Workshop	-	-	-	30	50	-	-	4	2			
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	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.								-	-	-	-
			Total	350	100	50	120	750	15	2	14	24			
9.	BT308	MC	Indian Constitution	Non-credit course											
	NC301		NSS/NCC	Non-credit course											

*Students can earn additional credits from the University recognized MOOC courses.



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



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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, 2020 (w.e.f. Jan, 2022)

S. No	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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	20	150	2	1	2	4
3.	CS403	DC	Software Engineering	70	20	10	30	20	20	150	3	1	2	5
4.	CS404	DC	Computer Org. & Architecture	70	20	10	30	20	20	150	3	1	2	5
5.	CS405	DC	Operating Systems	70	20	10	30	20	20	150	3	0	2	4
6.	CS406	DLC*	Programming Practices	-	-	-	30	20	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	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course										
9.	BT409I	MC	Indian Knowledge System	Non-credit course										
	NC001		NSS/NCC	Non-credit course										

*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.

*Students can earn additional credits from the University recognized MOOC courses.

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





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NSS/ NCC

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Computer Science and Engineering/
Computer Engineering/Computer Science & Technology]

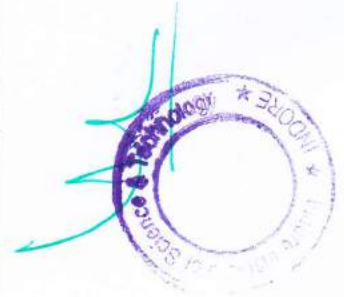
III Semester

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits		
				Theory		End Sem	Quiz/ Assignment	End Sem	Practical		L		T	P
				End Sem.	Mid Sem. Exam.				Term work Lab Work & Sessional	Total Marks				
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	150	3	-	2	4		
4.	CS304	DC-3	Digital Systems	70	20	10	30	150	3	-	2	4		
5.	CS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	150	3	-	2	4		
6.	CS306	DLC-3	Computer Workshop	-	-	-	30	50	-	-	4	2		
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	-	-	4	2		
8.	BT307	DLC-4	90 hrs Internship based on using various softwares - Internship-II	-	-	-	-	50	-	-	4	2		
			Total	350	100	50	120	750	15	2	14	24		
9.	BT308	MC	Indian Constitution	Non-credit course										
	NC301		NSS/NCC	Non-credit course										

To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.

*Students can earn additional credits from the University recognized MOOC courses.



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, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory			Practical		Total Marks	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									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC	Non-credit course									

*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.

*Students can earn additional credits from the University recognized MOOC courses.



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Minor Project 1

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
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				Practical			Contact Hours per week			Total Credits
				Theory		End Sem	Term work Lab Work & Sessional	L	T	P				
				End Sem.	Mid Sem. Exam.						Quiz/ Assignment	Total Marks		
1.	CS-501	DC	Theory of Computation	70	20	10	30	20	3	-	2	4		
2.	CS-502	DC	Database Management Systems	70	20	10	30	20	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.	BT -407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3	
8.	IN	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-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	12	1	22	24	

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**	

* Can be offered to students of all branches including CSE.
 ** Can be offered to students of all branches except CSE and IT



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Internship III

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
**Bachelor of Technology (B.Tech) Computer Science and Engineering/
 Computer Engineering/Computer Science & Technology**

V Semester

(w.e/f July, 2019)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks			Contact Hours per week			Total Credits
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Practical		L	T	P		
								Term work & Lab Work & Sessional	Total Marks					
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.	BT-407	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3	
8.	IN	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*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective U.G level.											
Total				280	80	40	120	230	750	12	1	22	24	

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**

** Can be offered to students of all branches including CSE
 *** Can be offered to students of all branches except CSE and IT



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

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

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory		Practical			Total Marks	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*	*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) 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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Minor Project II

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Computer Science and Engineering/
Computer Engineering/Computer Science & Technology/ **(w.e.f. Jan, 2020)**

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	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	2	1	2	4		
2.	CS602	DC	Computer Networks	70	20	10	30	20	2	1	2	4		
3.	CS603	DE	Departmental Elective	70	20	10	-	-	4	-	0	4		
4.	CS604	OE	Open Elective	70	20	10	-	-	4	-	0	4		
5.	CS605	D Lab	Data Analytics Lab	-	-	-	30	20	-	-	6	3		
6.	CS606	O/E Lab	Skill Development Lab	-	-	-	30	20	-	-	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	-	-	4	2		
9.	Additional Credits ^a		^a 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	12	2	20	24		

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



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Major Project I

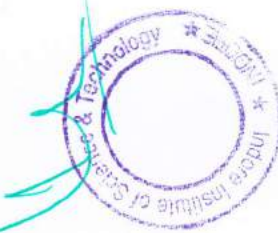
Rajiv Gandhi Proud yogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Computer Science and Engineering/ (w.e.f July, 2020)
Computer Engineering/Computer Science & Technology]

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory		Quiz/ Assignment	End Sem	Term work Lab Work & Sessional	Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.								
1.	CS 701	DC	Software Architectures	70	20	10	30	20	150	2	1	2	4
2.	CS 702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CS 703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	CS 704	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
5.	CS 705	O/E lab	Open Elective Lab	-	-	-	30	20	50	-	-	6	3
6.	CS 706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	CS 607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*		* Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives		Open Electives	
702(A) Computational Intelligence		703(A) Cryptography & Information Security	
702 (B) Deep & Reinforcement Learning		703(B) Data Mining and Warehousing	
702 (C) Wireless & Mobile Computing		703(C) Agile Software Development	
702 (D) Big Data		703 (D) Disaster Management	

Open Electives can be offered to students of all branches including CSE branch. However, they can be offered to students of Non-CSE branches only if they have not taken any similar courses previously and have sufficient knowledge of pre-requisite courses (if any) of respective open electives subject.



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

Major Project II

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B. Tech.) Computer Science and Engineering [w.e.f. Jan, 2021]
Computer Engineering/Computer Science & Technology

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						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	Total Marks				
1.	CS 801	DC	Internet of Things	70	20	10	30	20	2	1	2	4	
2.	CS 802	DE	Departmental Elective	70	20	10	-	-	3	1	-	4	
3.	CS 803	OE	Open Elective	70	20	10	-	-	3	-	-	3	
4.	CS 804	D/O/E Lab	D/O elective lab	-	-	-	30	20	-	-	6	3	
5.	CS 805	P	Major Project-II	-	-	-	70	30	-	-	8	4	
6.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										
Total				210	60	30	130	70	8	2	16	18	

Departmental Electives		Open Electives	
802(A) Block Chain Technologies		803(A) Image Processing and Computer Vision#	
802 (B) Cloud Computing		803(B) Game Theory with Engineering applications#	
802 (C) High Performance computing		803(C) Internet of Things*	
802 (D) Object Oriented Software Engineering		803 (D) Managing Innovation and Entrepreneurship#	

These Open Electives can be offered to students of all branches including CSE branch. However, they can be offered to students of Non-CSE branches only if they have not taken any similar courses previously and have sufficient knowledge of pre-requisite courses (if any) of respective open electives subject.
 * can be offered to students of all branches except CSE, provided they have not taken any similar course previously and have sufficient knowledge of pre-requisite courses, if any.



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



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CSE (IOT, Cyber Security including Blockchain Technology Department





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Internship – I (60 Hrs Duration) at the Institute Level

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

I Semester (Group A)

2018-19

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

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Contact Hours per week			Total Credits				
				End Sem.	Mid Sem.	Quiz/ Assignment	End Sem.	Practical Lab work & Sessional	Total Marks	L		T	P		
Mandatory Induction Program (First three weeks)															
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 Samasee Internship Udaat Bharat Abhyaan (100Hrs)/ Rural Outreach								15	10	-	4	2
Total				350	100	50	150	100	750	13	1	14	21		



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



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Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula Bachelor of Technology (B.Tech.) II Semester (Group A)

GROUP A: (CS, IT, EE, EX, EL, FT, AT, ML, BT, & BM)

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory Slot			Practical Slot			Total Marks	L	T		P
				End Sem.	Mid Sem Exam.	Quiz/Assignme nt	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	BSMC-2	Language Lab & Seminars	-	-	-	30	20		50	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level											
Total				350	100	50	150	100	750	14	2	10	21	

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Swachh Bharat Summer Internship / Rural Outreach

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

I Semester (Group B)

WAFS/11/17/2018

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
				End Sem.	Mid Sem Exam.	Quiz/Assignment	End Sem. & Sessional	Practical Slot	Total	L	T	P		
Mandatory Induction Program (First three weeks)														
Fourth week onwards classes will start														
1.	BT201	BSC-3	Engineering Physics	70	20	10	30	20	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	20	150	3	-	2	4
4.	BT204	ESC-5	Basic Civil Engineering & Mechanics	70	20	10	30	20	20	150	3	-	2	4
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	30	20	20	150	3	-	2	4
6.	BT206	HSMC-2	Language Lab & Seminars	-	-	-	30	20	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.										
Total				350	100	50	150	100	100	750	14	2	10	21



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

Rajiv Gandhi Proudvogiki 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. & Sessional									
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	3	-	2	4				
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	3	1	-	4				
3.	BT103	HSMC-1	English for Communication	70	20	10	30	20	3	-	2	4				
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	2	-	2	3				
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	2	-	2	3				
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	-	-	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.								-	-	4	2	
8.	BT108	DLC-2	Swachh Bharat Summer Internship (100Hrs) Rural Outreach	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.								-	-	1	14	21
Total				350	100	50	150	100	13	1	14	21				



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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AIML Department





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Internship – I (60 Hrs Duration) at the Institute Level

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

I Semester (Group A)

2022-2023

GROUP A: (CS, IT, EE, EX, EL, FT, AT, ML, BT, & BM)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				End Sem.	Mid Sem.	Quiz/ Assignm ent	End Sem. & Sessional		Practical Lab work	L	T		P
Mandatory Induction Program (First three weeks)													
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 Unnat Bharat Abhiyan (100Hrs)/ Rural Outreach				15	10	25	-	-	4	2
			Total	350	100	50	150	100	750	13	1	14	21



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



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

II Semester (Group A)

17 FEB 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 Slot		Practical Slot		End Sem.	Total	L	T	P				
				End Sem.	Mid Sem Exam.	Quiz/Assignment	End Sem. & 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-1 (60 Hrs Duration) at the Institute level													
Total				350	100	50	150	100	750	14	2	10	21			

To be completed during first/second semester. Its evaluation/credit to be added in third semester.



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



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Swachh Bharat Summer Internship / Rural Outreach

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

W.E.F. JULY 2018

I Semester (Group B)

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

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted				Practical Slot	Total Marks	Contact Hours per week			Total Credits
				End Sem.	Mid Sem Exam.	Quiz/Assignme at	End Sem.			Lab work & Sessional	L	T	
Mandatory Induction Program (First three weeks)													
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-3	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.									
Total				350	100	50	150	100	750	14	2	10	21



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



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

II Semester (Group B)

2022-23
2023

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	3	-	2	4	
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	3	1	-	4	
3.	BT103	HSMC-1	English for Communication	70	20	10	30	20	3	-	2	4	
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	2	-	2	3	
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	2	-	2	3	
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	-	-	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 Uttar Bharat Abhyas (100hrs) Rural Outreach	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
Total				350	100	50	150	100	13	1	14	21	



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



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Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

90 Hrs Internship (Internship -II)

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional						
1.	AL301	HSMC-3	Technical Communication	70	20	10	-	-	-	100	3	1	-	4
2.	AL302	DC-1	Introduction to Probability and Statistics	70	20	10	-	-	-	100	3	1	-	4
3.	AL303	DC-2	Data Structures	70	20	10	30	20	20	150	3	-	2	4
4.	AL304	DC-3	Artificial Intelligence	70	20	10	30	20	20	150	3	-	2	4
5.	AL305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	20	150	3	-	2	4
6.	AL306	DLC-3	Computer Workshop/ Introduction to python - I	-	-	-	30	20	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50	50	-	-	4	2
8.	BT307	DLC-4	Internship-II : 90 hrs Internship based on using various softwares	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.										
			Total	350	100	50	120	130	750	15	2	14	24	
9.	BT308	MC	Indian Constitution	Non-credit course										
	NC301		NSS/NCC											

*Students can earn additional credits from the University recognized MOOC courses.



1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit

Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal
Scheme of Examination as per AICTE Flexible Curricula
IV Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning]

For batches admitted in July, 2020 (w.e.f Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted						Contact Hours per week			Total Credits	
				Theory			Practical			Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work	Lab Work & Sessional					
1.	AL401	BSC	Introduction to Discrete Structure & Linear Algebra	70	20	10	-	-	-	100	3	1	-	4
2.	AL402	DC	Analysis & Design of Algorithms	70	20	10	30	20	20	150	4	0	2	5
3.	AL403	DC	Software Engineering	70	20	10	30	20	20	150	4	0	2	5
4.	AL404	DC	Computer Organization & Architecture	70	20	10	30	20	20	150	3	0	2	4
5.	AL405	DC	Machine Learning	70	20	10	30	20	20	150	3	0	2	4
6.	AL406	DLC*	Java Lab	-	-	-	30	20	20	50	-	-	4	2
7.	BT407	DLC	Internship II: 90 hrs Internship based on using various softwares	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.										
			Total	350	100	50	150	100	100	750	17	1	12	24
8.	BT408	MC	Cyber Security	Audit course										
9.	BT409I	MC	Indian Knowledge System	Audit course										
	NC001		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.

*Students can earn additional credits from the University recognized MOOC courses.



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



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NSS/ NCC

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Practical			Contact Hours per week			Total Credits
				Theory		Quiz/ Assignment	End Sem	Term work Lab Work & Sessional	L	T	P	Total Marks		
				End Sem.	Mid Sem. Exam.									
1.	AL301	HSMC-3	Technical Communication	70	20	10	-	-	-	3	1	-	4	
2.	AL302	DC-1	Introduction to Probability and Statistics	70	20	10	-	-	-	3	1	-	4	
3.	AL303	DC-2	Data Structures	70	20	10	30	20	20	3	-	2	4	
4.	AL304	DC-3	Artificial Intelligence	70	20	10	30	20	20	3	-	2	4	
5.	AL305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	20	3	-	2	4	
6.	AL306	DLC-3	Computer Workshop/ Introduction to python - I	-	-	-	30	20	20	50	-	4	2	
7.	BT107	DLC-1	Evaluation of Internship-I completed at 1 year level	-	-	-	-	50	50	50	-	4	2	
8.	BT307	DLC-4	Internship-II : 90 hrs Internship based on using various softwares	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.										
Total				350	100	50	120	130	750	15	2	14	24	
Indian Constitution				Non-credit course										
NC301				NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

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





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Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal Scheme of Examination as per AICTE Flexible Curricula IV Semester Bachelor of Technology (B.Tech.) [CSE-Artificial Intelligence and Machine Learning/ Artificial Intelligence and Machine Learning]

For batches admitted in July, 2020 (w.e.f Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Contact Hours per week			Total Credits	
				Theory		Practical			Total Marks	L	T		P
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	AL401	BSC	Introduction to Discrete Structure & Linear Algebra	70	20	10	-	-	100	3	1	-	4
2.	AL402	DC	Analysis & Design of Algorithms	70	20	10	30	20	150	4	0	2	5
3.	AL403	DC	Software Engineering	70	20	10	30	20	150	4	0	2	5
4.	AL404	DC	Computer Organization & Architecture	70	20	10	30	20	150	3	0	2	4
5.	AL405	DC	Machine Learning	70	20	10	30	20	150	3	0	2	4
6.	AL406	DLC*	Java Lab	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	Internship II: 90 hrs Internship based on using various softwares	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.									3
Total				350	100	50	150	100	750	17	1	12	24
8.	BT408	MC	Cyber Security	Audit course									
9.	BT409I	MC	Indian Knowledge System	Audit course									
	NC001		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.

*Students can earn additional credits from the University recognized MOOC courses.



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



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ECE (PG - Digital Communication) Department





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Dissertation Part I



Rajiv Gandhi Proudlyogiki Vishwavidyalaya, Bhopal(M.P.)

Scheme of Examination

Third Semester- Master of Engineering

(Digital Communication, Communication Tech./Control, Communication Systems)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Assignments /Quiz	End Sem. Practical / Viva	Practical Record Assignm ent/Quiz /Present ation		
1.	MEDC-301	Elective I	3	1	-	4	70	20	10	-	-	100
2.	MEDC-302	Elective II	3	1	-	4	70	20	10	-	-	100
3.	MEDC-303	Seminar	-	-	4	4	-	-	-	-	100	100
4.	MEDC-304	Dissertation Part I	-	-	8	8	-	-	-	120	80	200
		Total	6	2	12	20	140	40	20	120	180	500

w.e.f. July-2010

L: Lecture - T: Tutorial - P: Practical

Elective-I	
MEDC-301(A)	Information Theory & Coding

Elective-II	
MEDC-302(A)	Advanced Digital Communication
MEDC-302(B)	Optical Instrumentation & Measurement





Dissertation Part II



Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)

Scheme of Examination

Fourth Semester- M.E./M.Tech.

(Digital Communication, Communication Tech./Control, Communication Systems)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MEDC 401	Dissertation Part-II	-	-	20	20	-	-	-	300	200	500
		Total	-	-	20	20	-	-	-	300	200	500

w.e.f. July-2010

L: Lecture - T: Tutorial - P: Practical

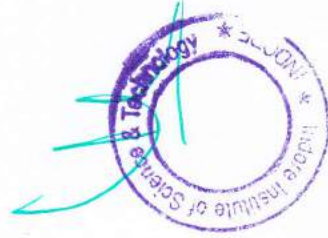




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PG – Computer Science and Engineering Department





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Dissertation Part I



Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal(M.P.)

Scheme of Examination

Third Semester- M.E./M.Tech. (Computer Sc. & Engg./Computer Sc.)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MCSE 301	Elective I	3	1	-	4	70	20	10	-	-	100
2.	MCSE 302	Elective II	3	1	-	4	70	20	10	-	-	100
3.	MCSE 303	Seminar	-	-	4	4	-	-	-	-	100	100
4.	MCSE 304	Dissertation Part-I (Literature Review/Problem Formulation/ Synopsis)	-	-	8	8	-	-	-	120	80	200
		Total	6	2	12	20	140	40	20	120	180	500

w.e.f. July-2010

L: Lecture - T: Tutorial - P: Practical

Elective-I (MCSE 301)

(A) Data Warehousing & Mining

Elective-II (MCSE 302)

(C) Network Security
(D) Simulation and Modeling





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Dissertation Part II



Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)

Scheme of Examination

Fourth Semester- M.E./M.Tech. (Computer Sc. & Engg./Computer Sc.)

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MCSE 401	Dissertation Part- II	-	-	20	20	-	-	-	300	200	500
		Total	-	-	20	20	-	-	-	300	200	500

L: Lecture - T: Tutorial - P: Practical

w.e.f. July-2010





Indore Institute of
Science and Technology

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ME (PG - Machine Design) Department





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Dissertation Part I



Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)

Scheme of Examination

Third Semester- Master of Technology/Master of Engineering

Machine Design and Robotics/Machine Design

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MMMD-301	Elective I	3	1	-	4	70	20	10	-	-	100
2.	MMMD-302	Elective II	3	1	-	4	70	20	10	-	-	100
3.	MMMD-303	Seminar	-	-	4	4	-	-	-	-	100	100
4.	MMMD-304	Dissertation Part-I (Literature Review/Problem Formulation/Synopses)	-	-	8	8	-	-	-	120	80	200
		Total	6	2	12	20	140	40	20	120	180	500

L: Lecture - T: Tutorial - P: Practical

Elective I

- A) Fatigue Fracture Analysis
- B) Experimental stress Analysis

Elective II

- A) Fluid Film Lubrication

w.e.f. July-2010





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Dissertation Part II



Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal(M.P.)

Scheme of Examination

Fourth Semester- M.E./M.Tech

Machine Design and Robotics/ Machine Design

S.No.	Subject Code	Subject Name	Periods per week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
			L	T	P		End Sem. Exam.	Tests (Two)	Assignments/Quiz	End Sem. Practical/Viva	Practical Record/Assignment/Quiz/Presentation	
1.	MMMD 401	Dissertation Part-II	-	-	20	20	-	-	-	300	200	500
		Total	-	-	20	20	-	-	-	300	200	500

L: Lecture - T: Tutorial - P: Practical

w.e.f. July-2010

