



RKDF UNIVERSITY, BHOPAL

New Scheme of Examination as per AICTE Flexible Curricula

W.E.F. JULY 2025

Subject wise distribution of marks

B.Tech. III Semester (Electrical and Electronics Engineering)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hours per Week			
				Theory		Mid Sem		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks					
1	EX-3011	ESC-7	Environmental Engineering	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
2	EX-3021	PCC-1	Electromagnetic Fields	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
3	EX-3031	PCC-2	Electrical Measurement and Measuring Instruments	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
4	EX-3041	PCC-3	Network Analysis	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
5	EX-3051	HSMC-3	Value Education	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
6	EX-3061	LC-1	Electrical Workshop	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-2071	IN-2	Evaluation of Internship-1 completed at 1 year level	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
			Total	350	-	100	-	50	-	150	-	50	-	50	-	750	19	1	10	30

1 Hour Lecture = 1 Credit
1 Hour Tutorial = 1 Credit
1 Hour Practical = 1 Credit



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B.Tech. IV Semester (Electrical and Electronics Engineering)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hours per Week			
				Theory		Mid Sem		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks					
1	EX-4011	BSC-5	Engineering Mathematics-III	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
2	EX-4021	PCC-4	Electrical Machines-I	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	EX-4031	PCC-5	Digital Electronics	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
4	EX-4041	PCC-6	Electrical Engineering Drawing	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
5	EX-4051	PCC-7	Power Systems-I	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
6	EX-4061	LC-2	Java Programming	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-4071	IN-3	Internship-2 (90 Hrs Duration) at the Institute Level	To be completed during IV semester. Its evaluation/ credit will be added in V semester																
			Total	350	-	100	-	50	-	150	-	50	-	50	-	750	18	2	10	30

1 Hour Lecture = 1 Credit
1 Hour Tutorial = 1 Credit
1 Hour Practical = 1 Credit



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B.Tech. V Semester (Electrical and Electronics Engineering)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hours per Week			
				Theory		Mid Sem		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks					
1	EX-5011	PCC-8	Electrical Machine - II	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
2	EX-5021	PCC-9	Switchgear & Protection	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	EX-5031	PEC-1	Professional Elective-1	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	EX-5041	OEC-1	Open Elective-1	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
5	EX-5051	LC-3	Electrical Simulation Lab-1	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	EX-5061	LC-4	Open Elective Lab-1	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-4071	IN-3	Evaluation of Internship-II	-	-	-	-	-	-	-	-	100	50	-	-	100	-	-	4	4
8	EX-5071	PROJ-1	Minor Project – I / Seminar	-	-	-	-	-	-	-	-	50	25	-	-	50	-	-	2	2
			Total	280	-	80	-	40	-	120	-	190	-	40	-	750	15	1	14	30

1 Hour Lecture = 1 Credit
1 Hour Tutorial = 1 Credit
1 Hour Practical = 1 Credit

Departmental Electives	Open Electives
EX-5031 (A) Energy Conservation Management	EX-5041 (A) Industrial Electronics
EX-5031 (B) Wind & Solar Energy	EX-5041 (B) Control System
EX-5031 (C) Renewable Power Generation	EX-5041 (C) Electrical & Electronics Materials
EX-5031 (D) SWAYAM/NPTEL-MOOC-1	EX-5041 (D)SWAYAM/NPTEL-MOOC-2



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B.Tech. VI Semester (Electrical and Electronics Engineering)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hours per Week			
				Theory		Mid Sem		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks					
1	EX-6011	PCC-10	Microprocessor & Micro-Controller	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
2	EX-6021	PCC-11	Power System - II	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	EX-6031	PEC-2	Departmental Elective - II	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	EX-6041	OEC-2	Open Elective - II	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
5	EX-6051	LC-5	Department Lab	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	EX-6061	LC-6	Open Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-6071	IN-4	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.																
8	EX-6081	PROJ-2	Minor Project - II	-	-	-	-	-	-	-	-	50	25	-	-	50	-	-	2	2
			Total	280	-	80	-	40	-	120	-	190	-	40	-	650	15	1	10	26

1 Hour Lecture = 1 Credit
1 Hour Tutorial = 1 Credit
1 Hour Practical = 1 Credit

Departmental Electives	Departmental Lab	Open Electives
EX-6031 (A) Utilization of Electrical Energy	EX -6051 Electrical Simulation Lab - II	EX-6041 (A) Electronic Instrumentation
EX-6031 (B) Electromagnetic Waves		EX-6041 (B) Internet of Things (IoT)
EX-6031 (C) Digital Signal Processing		EX-6041 (C) Analog & Digital Communication
EX- 6031(D) SWAYAM/NPTEL-MOOC-3		EX-6041 (D) SWAYAM/NPTEL-MOOC-4



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Subject wise distribution of marks

B.Tech. VII Semester (Electrical and Electronics Engineering)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hours per Week			
				Theory		Mid Sem		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks					
1	EX-7011	PCC -12	Power Electronics	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	EX-7021	PEC-3	Departmental Elective	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	EX-7031	OEC-3	Open Elective	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	EX-7041	LC-7	Departmental Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50		-	2	2
5	EX-7051	LC-8	Open Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	EX-7061	PROJ-3	Major Project – I	-	-	-	-	-	-	80	40	10	5	10	5	100	-	-	4	4
7	EX-6071	IN-4	Evaluation of Internship-III	-	-	-	-	-	-	-	-	50	25	50	25	100	-	-	4	4
			Total	210	-	60	-	30	-	170	-	90	-	90	-	650	10	2	14	26

1 Hour Lecture = 1 Credit
1 Hour Tutorial = 1 Credit
1 Hour Practical = 1 Credit

Departmental Electives	Open Electives
EX-7021(A) Power System Analysis & Control	EX-7031(A) Power Plant Instrumentation
EX-7021(B) Electrical Drives	EX-7031(B) Semiconductor Devices
EX-7021(C) Power System Planning & Reliability	EX-7031(C) Electrical Machine-III
EX-7021(D) SWAYAM/NPTEL-MOOC-5	EX-7031(D) SWAYAM/NPTEL-MOOC-6



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B.Tech. VIII Semester (Electrical & Electronics Engineering)

S. No.	Subject Code	Category	Subject Name	Theory Slot						Practical Slot						Total Marks	Contact Hours per Week			
				Theory		Mid Sem		Quiz Assignment		Practical		Lab Work		Lab Quiz			L	T	P	Total Credits
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks					
1	EX-8011	PCC-13	Electric And Hybrid Vehicles	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	EX-8021	PEC-4	Departmental Elective	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	EX-8031	OEC-4	Open Elective	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
4	EX-8041	LC-9	Departmental Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50		-	2	2
5	EX-8051	PROJ-4	Major Project - II	-	-	-	-	-	-	120	60	40	20	40	20	200	-	-	8	8
			Total	210	-	60	-	30	-	180	-	60	-	60	-	600	9	3	12	24

1 Hour Lecture = 1 Credit
 1 Hour Tutorial = 1 Credit
 1 Hour Practical = 1 Credit

Departmental Electives	Open Electives
EX-8021(A) Computer Application To Power System	EX-8031(A) High Voltage Engineering
EX-8021(B) SCADA Systems & Application	EX-8031(B) Power System Economics
EX-8021(C) Digital Image Processing	EX-8031(C) Advanced Communication System
EX-8021(D) SWAYAM/NPTEL-MOOC-7	EX-8031(D) SWAYAM/NPTEL-MOOC-8