



RKDF UNIVERSITY, BHOPAL
New Scheme of Examination as per AICTE Flexible Curricula
W.E.F. 2025
Subject wise distribution of marks

B.Tech. III Semester (Electronics and Communication 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	EC-3011	ESC-7	Environmental Engineering	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
2	EC-3021	PCC-1	Engineering Mathematics- III	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
3	EC-3031	PCC-2	Digital Electronics	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
4	EC-3041	PCC-3	Network Analysis	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
5	EC-3051	HSMC-3	Value Education	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
6	EC-3061	LC-1	Software Lab-I	-	-	-	-	-	-	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	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. IV Semester (Electronics and Communication 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	EC-4011	BSC-5	Electronic Devices	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	EC-4021	PCC-4	Electronic Instrumentation and Measurement	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	EC-4031	PCC-5	Analog Communication	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
4	EC-4041	PCC-6	Analog Circuits	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
5	EC-4051	PCC-7	Control Systems	70	25	20	10	10	5							100	4	-	-	4
6	EC-4061	LC-2	Software Lab-II	-	-	-	-	-	-	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	16	4	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 (Electronics and Communication 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						
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks		Max. Marks	Min. Marks	L	T
1	EC-5011	PCC-8	Digital Communication	70	25	20	10	10	5	30	15	10	5	10	5	150	4	-	2	6
2	EC-5021	PCC-9	Electromagnetic Theory	70	25	20	10	10	5							100	3	1	-	4
3	EC-5031	PEC-1	Departmental Elective-1	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
4	EC-5041	OEC-1	Open Elective-1	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
5	EC-5051	LC-3	Microprocessor Lab	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	EC-5061	LC-4	Software Lab III	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
7	BE-4071	IN-3	Evaluation of Internship-II	-	-	-	-	-	-	-	-	100	50	-	-	100	-	-	4	4
8	EC-5071	PROJ-1	Minor Project-I	-	-	-	-	-	-	-	-	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 ELECTIVE COURSE	OPEN ELECTIVE COURSE (OEC)
EC 5031 (A) MICRO PROCESSOR AND MICRO CONTROLLER (μp and μc)	EC 5041 (A) INDUSTRIAL ELECTRONICS (IE)
EC 5031 (B) VOICE COMMUNICATION (VC)	EC 5041 (B) COMPUTER ORGANIZATION (CO)
EC 5031 (C) COMMUNICATION NETWORKS AND TRANSMISSION LINES (CNTL)	EC 5041 (C) DATA COMMUNICATION (DC)
EC 5031(D) ELECTRIC VEHICLE	EC 5041(D) DRONE TECHNOLOGY
EC 5031(E) SWAYAM COURSE I	EC 5041(E) SWAYAM COURSE II



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Subject wise distribution of marks

B.Tech. VI Semester (Electronics and Communication 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	EC-6011	PCC-10	Wireless Communication	70	25	20	10	10	5							150	4	-	-	4
2	EC-6021	PCC-11	Antenna & Wave propagation	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
3	EC-6031	PEC-2	Departmental Elective-II	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	EC-6041	OEC-2	Open Elective-II	70	25	20	10	10	5	30	15	10	5	10	5	100	4	-	2	6
5	EC-6051	LC-5	Software Lab-IV	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	EC-6061	LC-6	DSP & Embedded system 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	EC-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	Open Electives
EC 6031 (A) VLSI FABRICATION AND TECHNOLOGY (VLSI)	EC 6041(A) OPTICAL FIBER AND COMMUNICATION (OFC)
EC 6031 (B) DIGITAL SIGNAL PROCESSING (DSP)	EC 6041 (B) POWER ELECTRONICS (PE)
EC 6031 (C) DIGITAL IMAGE PROCESSING (DIP)	EC 6041 (C) BIO MEDICAL ELECTRONICS (BME)
EC 6031(D) ELECTRIC VEHICLE	EC 6041(D) DRONE TECHNOLOGY
EC 6031(E) SWAYAM COURSE III	EC 6041(E) SWAYAM COURSE IV



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Subject wise Distribution of Marks

B.Tech.VII Semester (Electronics and Communication 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	EC-7011	PCC -12	VLSI Design	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	EC-7021	PEC-3	Departmental Elective-III	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	EC-7031	OEC-3	Open Elective-III	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	EC-7041	LC-7	Departmental Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50		-	2	2
5	EC-7051	LC-8	Open Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50	-	-	2	2
6	EC-7061	PROJ-3	Major Project – I	-	-	-	-	-	-	80	40	10	5	10	5	100	-	-	4	4
7	EC-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
EC-7021(A) Microwave Engineering	EC-7031(A) I.O.T
EC-7021 (B) Information Theory & Coding	EC-7031(B) Operation Research
EC-7021 (C) Nano Electronics	EC-7031(C) 5G Technology
EC- 7021(D) SWAYAM COURSE V	EC-7031(D) SWAYAM COURSE VI

Departmental Elective Lab	Open Elective Lab
EC-7041 Microwave Lab	EC-7051 I.O.T



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Subject wise Distribution of Marks

B.Tech.VIII Semester (Electronics and Communication 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						
				Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks		Max. Marks	Min. Marks	L	T
1	EC-8011	PCC-13	TV and RADAR	70	25	20	10	10	5	30	15	10	5	10	5	150	3	1	2	6
2	EC-8021	PEC-4	Departmental Elective-IV	70	25	20	10	10	5	-	-	-	-	-	-	100	3	1	-	4
3	EC-8031	OEC-4	Open Elective-IV	70	25	20	10	10	5	-	-	-	-	-	-	100	4	-	-	4
4	EC-8041	LC-9	Departmental Elective Lab	-	-	-	-	-	-	30	15	10	5	10	5	50		-	2	2
5	EC-8051	PROJ-2	Major Project - II	-	-	-	-	-	-	120	60	40	20	40	20	200	-	-	8	8
			Total	210	-	60	-	30	-	180	-	60	-	60	-	600	10	2	12	24

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

Departmental Electives	Open Electives
EC 8021 (A) Satellite Communication	EC 8031(A) Cellular Mobile Communication
EC 8021 (B) AI & Signal Processing	EC 8031 (B) Human Resource Management
EC 8021 (C) Wireless Network	EC 8031 (C) Speech Processing
EC 8021(D) SWAYAM COURSE VII	EC 8031(D) SWAYAM COURSE VIII

Departmental Elective Lab

EC 8041 Advanced Communication Engg. Lab