

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

Teaching and Examination Scheme (Admitted 2024-25 & onwards)

M.Tech Digital Communication (DC)

M.Tech. I Year (Semester I)																
Sr. No.	Br.	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme				Exam Hrs.	Marks			Credit	
							Classroom Instruction (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)		Total no. of Hours per semester	CIE	SEE		Total
							L	T	P	SL						
1	DC	I	I	ECPL101	Advanced Digital Communication system	PCC	45	0	0	45	90	3	40	60	100	3
2	DC	I	I	ECPL102	Advanced Digital Signal Processing	PCC	45	0	0	45	90	3	40	60	100	3
					Program Elective-I											
3	DC	I	I	ECPL111	RF and Microwave Circuit Design	PEC	45	0	0	45	90	3	40	60	100	3
4	DC	I	I	ECPL112	MIMO systems											
5	DC	I	I	ECPL113	Information Theory and Coding											
					Program Elective-II											
6	DC	I	I	ECPL114	Modern Satellite Communication	PEC	45	0	0	45	90	3	40	60	100	3
7	DC	I	I	ECPL115	Terahertz Devices and Applications											
8	DC	I	I	ECPL116	Design of MIC's and MMIC's											
9	DC	I	I	NP40.01	Optimization Techniques	MCC	45	0	0	45	90	3	40	60	100	3
10	DC	I	I	NP99.XX	AUDIT COURSE	MCC	-	-	-	-	-	3	40	60	100	0
11	DC	I	I	ECPP130	Advance Digital Communication Lab	PCC	0	0	60	-	60	2	60	40	100	2
12	DC	I	I	ECPP131	Advance Digital Signal ProcessingLab	PCC	0	0	60	-	60	2	60	40	100	2
13	DC	I	I	ECPA100	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	SODECA	-	-	-	-	-	-	-	-	100	1
													Total Credit			20

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M.Tech. I Year (Semester II)																
Sr. No.	Br.	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme					Exam Hrs.	Marks			Credit
							Classroom Instruction (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)	Total no. of Hours per semester		CIE	SEE	Total	
							L	T								
1	DC	I	II	ECPL201	Fiber Optic Communications and Optical Networks	PCC	45	0	0	45	90	3	40	60	100	3
2	DC	I	II	ECPL202	Smart Antennas	PCC	45	0	0	45	90	3	40	60	100	3
					Program Elective-III											
3	DC	I	II	ECPL211	Automation using IOT and AI	PEC	45	0	0	45	90	3	40	60	100	3
4	DC	I	II	ECPL212	Advanced Photonics devices and components											
5	DC	I	II	ECPL213	Applied Machine Learning											
					Program Elective-IV											
6	DC	I	II	ECPL214	Neural Network and Fuzzy Logic	PEC	45	0	0	45	90	3	40	60	100	3
7	DC	I	II	ECPL215	Cryptography and Network security											
8	DC	I	II	ECPL216	Adaptive Digital ImageProcessing											
9	DC	I	II	NP99.XX	AUDIT COURSE	MCC	-	-	-	-	-	3	40	60	100	0
10	DC	I	II	ECPP230	Antenna & Radiating System Lab	PCC	0	0	60	-	60	2	60	40	100	2
11	DC	I	II	ECPP231	Wireless and Fiber Optical Communication Lab	PCC	0	0	60	-	60	2	60	40	100	2
12	DC	I	II	ECPD250	Mini Project with Seminar	REW	0	0	60	-	60	2	60	40	100	2
13	DC	I	II	ECPA200	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	SODECA	-	-	-	-	-	-	-	-	100	1
													Total Credit			19

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M.Tech. II Year (Semester III)																
Sr. No.	Br.	Year	Sem.	Course Code	Course Name	Category	Teaching & Learning Scheme				Exam Hrs.	Marks			Credit	
							Classroom Instruction (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)		Total no. of Hours per semester	CIE	SEE		Total
							L	T	P	SL						
					Program Elective-V											
1	DC	II	III	ECPL311	Advance 5G Technologies	PEC										
2	DC	II	III	ECPL312	Nano-Technologies (Devices and Applications)		45	0	0	45	90	3	40	60	100	3
3	DC	II	III	ECPL313	Embedded Systems											
4	DC	II	III	NP40.02	Research Methodology & IPR	MCC	45	0	0	45	90	3	40	60	100	3
5	DC	II	III		OPEN ELECTIVE	MCC	45	0	0	45	90	3	40	60	100	3
6	DC	II	III	ECPD360	Pre Dissertation	REW	-	-	20	-	20	-	240	160	400	12
													Total Credit			21
M.Tech. II Year (Semester IV)																
1	DC	II	IV	ECPD470	Dissertation	REW	-	-	32	-	32	-	360	240	600	20
													Total Credit			20

