

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

Teaching and Examination Scheme-2024-25

M.Tech_Digital Communication (DC)

Sr. No.	Course	YEAR	SEM.	Course Code	Course Name	Teaching Scheme			Exam Hrs.	Marks			Credit
						L	T	P		CIE	SEE	Total	
1	DC	I	I	ECPL101	Advanced Digital Communication system	3	0	0	3	40	60	100	3
2	DC	I	I	ECPL102	Advanced Digital Signal Processing	3	0	0	3	40	60	100	3
3	DC	I	I	ECPL111	RF and Microwave Circuit Design	3	0	0	3	40	60	100	3
4	DC	I	I	ECPL112	MIMO systems	3	0	0	3	40	60	100	
5	DC	I	I	ECPL113	Information Theory and Coding	3	0	0	3	40	60	100	
6	DC	I	I	ECPL114	Modern Satellite Communication	3	0	0	3	40	60	100	3
7	DC	I	I	ECPL115	Terahertz Devices and Applications	3	0	0	3	40	60	100	
8	DC	I	I	ECPL116	Design of MIC's and MMIC's	3	0	0	3	40	60	100	
9	DC	I	I	NP40.01	Optimization Techniques	3	0	0	3	40	60	100	3
10	DC	I	I	NP99.XX	AUDIT COURSE	-	-	-	3	40	60	100	0
11	DC	I	I	ECPP130	Advance Digital Communication Lab	0	0	4	2	60	40	100	2
12	DC	I	I	ECPP131	Advance Digital Signal ProcessingLab	0	0	4	2	60	40	100	2
13	DC	I	I	ECPA100	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	-	-	-	-	-	-	100	1
									Total Credit			20	

1	DC	I	II	ECPL201	Fiber Optic Communications and Optical Networks	3	0	0	3	40	60	100	3
2	DC	I	II	ECPL202	Smart Antennas	3	0	0	3	40	60	100	3
3	DC	I	II	ECPL211	Automation using IOT and AI	3	0	0	3	40	60	100	3
4	DC	I	II	ECPL212	Advanced Photonics devices and components	3	0	0	3	40	60	100	
5	DC	I	II	ECPL213	Applied Machine Learning	3	0	0	3	40	60	100	
6	DC	I	II	ECPL214	Neural Network and Fuzzy Logic	3	0	0	3	40	60	100	3
7	DC	I	II	ECPL215	Cryptography and Network security	3	0	0	3	40	60	100	
8	DC	I	II	ECPL216	Adaptive Digital ImageProcessing	3	0	0	3	40	60	100	
9	DC	I	II	NP99.XX	AUDIT COURSE	-	-	-	3	40	60	100	0
10	DC	I	II	ECPP230	Antenna & Radiating System Lab	0	0	4	2	60	40	100	2
11	DC	I	II	ECPP231	Wireless and Fiber Optical Communication Lab	0	0	4	2	60	40	100	2
12	DC	I	II	ECPD250	Mini Project with Seminar	0	0	4	2	60	40	100	2
13	DC	I	II	ECPA200	Social Outreach, Discipline & Extra Curricular Activities (SODECA)	-	-	-	-	-	-	100	1
										Total Credit			19

1	DC	II	III	ECPL311	Advance 5G Technologies	3	0	0	3	40	60	100	3
2	DC	II	III	ECPL312	Nano-Technologies (Devices and Applications)	3	0	0	3	40	60	100	
3	DC	II	III	ECPL313	Embedded Systems	3	0	0	3	40	60	100	
4	DC	II	III	NP40.02	Research Methodology & IPR	3	0	0	3	40	60	100	3
5	DC	II	III		OPEN ELECTIVE	3	0	0	3	40	60	100	3
6	DC	II	III	ECPD360	Pre Dissertation	-	-	-	-	240	160	400	12
										Total Credit			21
1	DC	II	IV	ECPD470	Dissertation	-	-	-	-	360	240	600	20
										Total Credit			20

Summary of Credit Distribution_M.Tech_Digital Communication (DC)

Category	Proposed Credit Distribution for M.Tech. Program	Credit Distribution proposed by Department	Remarks (Discrepance if any)
PCC (Program Core Courses)	35	20	0
PEC (Program Elective Courses)-I		15	
PEC (Program Elective Courses)-II			
PEC (Program Elective Courses)-III			
PEC (Program Elective Courses)-IV			
PEC (Program Elective Courses)-V			
REW(Research Work)	34	34	0
MCC (Mandatory Course)	9	9	0
SODECA	2	2	0
Total	80	80	0

Summary of Credit Distribution_M.Tech_Digital Communication (DC)

Semester	Proposed Credit Distribution for M.Tech. Program	Credit Distribution proposed by Department	Remarks (Discrepance if any)
I	20	20	0
II	19	19	0
III	21	21	0
IV	20	20	0
Total	80	80	0