

**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Scheme of Instruction and Evaluation for Two Year Postgraduate Programme
M.TECH. (DIGITAL COMMUNICATIONS)**

SEMESTER - I

Course code	Course Name	Periods/week			Credits	Evaluation Scheme				
		L	T	P		CIE			ES E	Total Marks
						TA	MSE	Total		
P14DC101	Detection & Estimation Theory	3	1	-	4	15	25	40	60	100
P14DC102	Modern Digital Communication Techniques	3	1	-	4	15	25	40	60	100
P14DC103	Advanced Digital Signal Processing	3	1	-	4	15	25	40	60	100
P14DC104	Microwave & Optical Fiber Communication Systems	3	1	-	4	15	25	40	60	100
P14DC105	Elective-I	3	1	-	4	15	25	40	60	100
P14DC106	Elective-II	3	1	-	4	15	25	40	60	100
P14DC107	Advanced Digital Signal Processing Lab	-	-	3	2	40	-	40	60	100
P14DC108	Microwave & Optical Fiber Communication Systems Lab	-	-	3	2	40	-	40	60	100
P14DC109	Seminar	-	-	-	2	100	-	100	-	100
	Total	18	6	6	30	270	150	420	480	900

Elective-I

P14DC105A	Advanced Digital Design
P14DC105B	Artificial Neural Networks
P14DC105C	Embedded System Design
P14DC105D	Low Power VLSI

Elective-II

P14DC106A	Data Compression Techniques
P14DC106B	Digital Design for Testability
P14DC106C	Data & Computer Communications
P14DC106D	Neuro-Fuzzy Modeling

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SEMESTER - II

Course Code	Course Name	Periods/ week			Credits	Evaluation Scheme				
		L	T	P		CIE			ESE	Total Marks
						TA	MSE	Total		
P14DC201	Communication System Modeling	3	1	-	4	15	25	40	60	100
P14DC202	Coding Theory	3	1	-	4	15	25	40	60	100
P14DC203	Adaptive Signal Processing	3	1	-	4	15	25	40	60	100
P14DC204	Radar Signal Processing	3	1	-	4	15	25	40	60	100
P14DC205	Elective-III	3	1	-	4	15	25	40	60	100
P14DC206	Elective-IV	3	1	-	4	15	25	40	60	100
P14DC207	Communication System Modeling & Simulation Lab	-	-	3	2	40	-	40	60	100
P14DC208	Digital Communication Lab	-	-	3	2	40	-	40	60	100
P14DC209	Comprehensive Viva-voce	-	-	-	2	-	-	-	100	100
	Total	18	6	6	30	170	150	320	580	900

Elective - III

P14DC205A DSP Processors
P14DC205B Satellite Communications
P14DC205C Radio Navigational Aids
P14DC205D Multimedia Communications & System Design

Elective - IV

P14DC206A Statistical Signal Processing
P14DC206B Adhoc & Wireless Sensor networks
P14DC206C Digital Image Processing
P14DC206D Quantum Communications

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SEMESTER - III

Course code	Course Name	Period	Credits	Evaluation Scheme				
				CIE			ESE	Total Marks
				TA	MSE	Total		
P14DC301	Industrial Training	08 Weeks	4	100	-	100	-	100
P14DC302	Dissertation	16 Weeks	8	100	-	100	-	100
		Total	12	200	-	200	-	200

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SEMESTER - IV

Course code	Course Name	Period	Credits	Evaluation Scheme				
				CIE			ESE	Total Marks
				TA	MSE	Total		
P14DC401	Dissertation	24 Weeks	12	40	-	40	60	100
		Total	12	40	-	40	60	100