

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL-15

(An Autonomous Institute under Kakatiya University)

**SCHEME OF INSTRUCTION AND EVALUATION
I SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME
COMMON FOR ALL BRANCHES OF ENGINEERING**

S.No.	Course category	Course code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BS	MH101	Engineering Mathematics - I	3	1	-	4	15	25	40	60	100
2	ES	CS102	Programming in 'C'	3	1	-	4	15	25	40	60	100
3	BS	CH103	Engineering Chemistry	3	1	-	4	15	25	40	60	100
4	ES	ME104	Engineering graphics	2	-	4	4	15	25	40	60	100
5	ES	EE105	Basic Electrical Engineering	3	-	-	3	15	25	40	60	100
6	ES	CE106	Basic Engineering Mechanics	3	1	-	4	15	25	40	60	100
7	ES	CS107	Programming in C Laboratory	-	-	3	2	40	-	40	60	100
8	BS	CH108	Engineering Chemistry Laboratory	-	-	3	2	40	-	40	60	100
			Total	17	4	10	27	-	-	320	480	800
9	MC	CH109	Environmental Studies	2	-	-	2	15	25	40	60	100
10	MC	EA110	EAA: Physical Education and NSS	-	-	2	1	100	-	100	-	100

MC - Mandatory Course

Student Contact hours/week : 35

Total Credits : 27

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**SCHEME OF INSTRUCTION AND EVALUATION
II SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME
COMMON FOR ALL BRANCHES OF ENGINEERING**

S.No	Course category	Course code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BS	MH201	Engg. Mathematics - II	3	1	-	4	15	25	40	60	100
2	ES	CS202	Object Oriented Programming (OOP)	3	1	-	4	15	25	40	60	100
3	BS	PH203	Engineering Physics	3	1	-	4	15	25	40	60	100
4	HS	MH204	English for communication	2	-	4	3	15	25	40	60	100
5	ES	EI205	Basic Electronics Engineering	3	-	-	3	15	25	40	60	100
6	ES	ME206	Basic Mechanical Engineering	3	1	-	3	15	25	40	60	100
7	ES	CS207	Object Oriented Programming (OOP) Laboratory	-	-	3	2	15	25	40	60	100
8	BS	PH208	Engineering Physics Lab	-	-	3	2	40	-	40	60	100
9	ES	ME209	Engineering Workshop Practice	-	-	-	2	40	-	40	60	100
			Total	17	4	10	27	-		460	540	1000
10	MC	EA210	EAA. Physical Education and NSS	-	-	2	1	100	-	100	-	100

MC - Mandatory Course

Student Contact hours/week : 33

Total Credits : 27

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SCHEME OF INSTRUCTION AND EVALUATION

III SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME

ELECTRONICS & COMMUNICATION ENGINEERING

S.No	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BS	U14MH301	Engineering Mathematics - III	3	1	-	4	15	25	40	60	100
2	PC	U14EC302	Switching Theory and Logic Design	3	1	-	4	15	25	40	60	100
3	PC	U14EC304	Electronic Circuits	3	1	-	4	15	25	40	60	100
4	PC	U14EC305	Signals and Systems	3	1	-	4	15	25	40	60	100
5	PC	U14EC306	Electro Magnetic Waves and Transmission Lines	3	1	-	4	15	25	40	60	100
6	ES	U14EE310	Network Analysis and Synthesis	3	1	-	4	15	25	40	60	100
7	PC	U14EC308	Electronic Devices and Circuits Laboratory	-	-	3	2	40	-	40	60	100
8	ES	U14EE311	Electrical Technology and Networks Laboratory	-	-	3	2	40	-	40	60	100
			Total	18	6	6	28	-	-	320	480	800
9	MC	U14MH309	Compliance with Current English	-	-	2	1	100	-	100	-	100

Student Contact hours/week : 32; Total Credits: 28

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SCHEME OF INSTRUCTION AND EVALUATION

IV SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME

ELECTRONICS & COMMUNICATION ENGINEERING

S No	Course Category	Course code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BS	U14MH401	Engineering Mathematics - IV	3	1	-	4	15	25	40	60	100
2	PC	U14EC402	Pulse and Digital Circuits	3	1	-	4	15	25	40	60	100
3	PC	U14EC403	Probability and Random Processes	3	1	-	4	15	25	40	60	100
4	PC	U14EC404	Digital Design	3	1	-	4	15	25	40	60	100
5	PC	U14EC405	Linear Integrated Circuits	3	1	-	4	15	25	40	60	100
6	PC	U14EC406	Pulse and Digital Circuits Laboratory	-	-	3	2	40	-	40	60	100
7	PC	U14EC407	Digital Electronics Laboratory	-	-	3	2	40	-	40	60	100
8	PC	U14EC408	Linear Integrated Circuits Laboratory	-	-	3	2	40	-	40	60	100
			Total	15	5	9	26	-	-	320	480	800
9	MC	U14MH409	Soft and Interpersonal Skills	-	-	2	1	100	-	100	-	100
10	MC#	U14CH209	Environmental Studies	2	-	-	2	15	25	40	60	100

Student Contact hours/week : 31+2# ; Total Credits : 26; #For Lateral Entry Students only

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V SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME

ELECTRONICS & COMMUNICATION ENGINEERING

S. No	Course Category	Course code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	PC	U14EC501	Antennas and Wave Propagation	3	1	-	4	15	25	40	60	100
2	PC	U14EC502	Digital Signal Processing	3	1	-	4	15	25	40	60	100
3	PC	U14EC503	Analog Communication Systems	3	1	-	4	15	25	40	60	100
4	PC	U14EC504	Microprocessors and Microcontrollers	3	1	-	4	15	25	40	60	100
5	PC	U14EC505	Computer Architecture	3	1	-	4	15	25	40	60	100
6	PC	U14EC506	Digital Signal Processing Laboratory	-	-	3	2	40	-	40	60	100
7	PC	U14EC507	Analog Communication Laboratory	-	-	3	2	40	-	40	60	100
8	PC	U14EC508	Microprocessors and Microcontrollers Laboratory	-	-	3	2	40	-	40	60	100
9	PR	U14EC509	Seminar	-	-	-	1	100	-	100	-	100
			Total	15	5	9	27	-		420	480	900

Student Contact hours/week : 29; Total Credits: 27

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SCHEME OF INSTRUCTION AND EVALUATION

VI SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME

ELECTRONICS & COMMUNICATION ENGINEERING

S. No.	Course Category	Course code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	OE	U14OE601	Open Elective-I	4	-	-	4	15	25	40	60	100
2	PC	U14EC602	Digital Communication Systems	3	1	-	4	15	25	40	60	100
3	PC	U14EE610	Linear Control Systems	3	1	-	4	15	25	40	60	100
4	ES	U14CS611	Data Structures	3	1	-	4	15	25	40	60	100
5	PC	U14EI613	Electronic Measurements and Instrumentation	3	1	-	4	15	25	40	60	100
6	PE	U14EC606	Professional Elective-I	4	-	-	4	15	25	40	60	100
7	PC	U14EC607	Digital Communication Laboratory	-	-	3	2	40	-	40	60	100
8	ES	U14CS612	Data Structures Laboratory	-	-	3	2	40	-	40	60	100
9	PR	U14EC609	Mini Project	-	-	-	2	40	-	40	60	100
Total				20	4	6	30	-	-	360	540	900

Student Contact hours/week : 30; Total Credits : 30

Open Elective-I

U14OE 601A: Disaster Management
 U14OE 601B: Project Management
 U14OE 601C: Professional Ethics in Engineering
 U14OE 601D: Rural Technology and Community Development

Professional Elective-I

U14EC 606A: Digital Image Processing
 U14EC 606B: Nano Technology
 U14EC 606C: Neural Networks and Fuzzy Logic

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SCHEME OF INSTRUCTION AND EVALUATION

VII SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME

ELECTRONICS & COMMUNICATION ENGINEERING

S.No	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	HS	U14MH701	Management, Economics and Accountancy	3	1	-	4	15	25	40	60	100
2	PC	U14EC702	VLSI Design	4	-	-	4	15	25	40	60	100
3	ES	U14CS709	Operating Systems	3	1	-	4	15	25	40	60	100
4	PE	U14EC703	Professional Elective-II	4	-	-	4	15	25	40	60	100
5	PE	U14EC704	Professional Elective -III	4	-	-	4	15	25	40	60	100
6	PC	U14EC706	ECAD Laboratory	-	-	3	2	40	-	40	60	100
7	ES	U14CS710	Operating Systems Laboratory	-	-	3	2	40	-	40	60	100
8	PR	U14EC711	Major Project Work <i>Phase-I</i>	-	-	7	4	100	-	100	-	100
			Total	18	2	13	28	-	-	380	420	800

Student Contact hours/week : 33; Total Credits: 28

Professional Elective-II

U14EC 703A: Satellite Communications
 U14EC 703B: Data Communication Networks
 U14EC 703C: Smart Antennas

Professional Elective-III

U14EC 704A: Cellular and Mobile Communications
 U14EC 704B: DSP Processors
 U14EC 704C: Industrial Electronics

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ELECTRONICS & COMMUNICATION ENGINEERING

S.No	Course Category	Course code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	OE	U14OE801	Open Elective-II	4	-	-	4	15	25	40	60	100
2	PC	U14EC802	Micro Wave Engineering	3	1	-	4	15	25	40	60	100
3	PE	U14EC803	Professional Elective -IV	4	-	-	4	15	25	40	60	100
4	PE	U14EC804	Professional Elective -V	4	-	-	4	15	25	40	60	100
5	PC	U14EC805	Micro Wave and Optical Communication Laboratory	-	-	3	2	40	-	40	60	100
6	PC	U14EC806	Simulation Laboratory	-	-	3	2	40	-	40	60	100
7	PR	U14EC807	Major Project Work <i>Phase-II</i>	-	-	13	7	40	-	40	60	100
			Total	15	1	19	27	-	-	280	420	700

Student Contact hours/week : 35; Total Credits : 27

Open Elective-II

U14OE 801A: Operation Research
U14OE 801B: Management Information Systems
U14OE 801C: Entrepreneurship Development
U14OE 801D: Forex and Foreign Trade

Professional Elective-IV

U14EC 803A: TV and Radar Engineering
U14EC 803B: Optical Fiber Communication Systems
U14EC 803C: Telecommunication Switching Systems

Professional Elective -V

U14EC 804A: Digital System Design
U14EC 804B: Embedded System Design
U14EC 804C: Robotics and Computer Vision