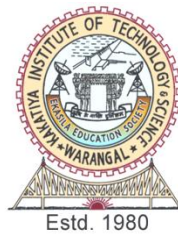


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.Tech. CSE - AUTONOMOUS - SCHEME
(*w.e.f. 2015-16*)

of

(I, II, III, IV, V, VI, VII & VIII SEMESTERS)



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE WARANGAL-15
(*An Autonomous Institution under Kakatiya University*)

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL-15

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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	14MH101	Engg. Mathematics - I	3	1	-	4	15	25	40	60	100
2	ES	14CS102	Programming in 'C'	3	1	-	4	15	25	40	60	100
3	BS	U14PH103	Engineering Physics	3	1	-	4	15	25	40	60	100
4	HS	14MH104	English for communication	2	-	4	3	15	25	40	60	100
5	ES	U14EI105	Basic Electronics Engineering	3	-	-	3	15	25	40	60	100
6	ES	U14ME106	Basic Mechanical Engineering	3	1	-	3	15	25	40	60	100
7	ES	U14CS107	Programming in 'C' Laboratory	-	-	3	2	15	25	40	60	100
8	BS	U14PH108	Engineering Physics Lab	-	-	3	2	40	-	40	60	100
9	ES	U14ME109	Engineering Workshop Practice	-	-	-	2	40	-	40	60	100
			Total	17	4	10	27	-		460	540	1000
10	MC	U14EA110	EAA. Physical Education and NSS	-	-	2	1	100	-	100	-	100

MC - Mandatory Course

Student Contact hours/week : 33

Total Credits : 27

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL-15

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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	CH203	Engineering Chemistry	3	1	-	4	15	25	40	60	100
4	ES	ME204	Engineering graphics	2	-	4	4	15	25	40	60	100
5	ES	EE205	Basic Electrical Engineering	3	-	-	3	15	25	40	60	100
6	ES	CE206	Basic Engineering Mechanics	3	1	-	4	15	25	40	60	100
7	ES	CS207	Object Oriented Programming (OOP) Laboratory	-	-	3	2	40	-	40	60	100
8	BS	CH208	Engineering Chemistry Laboratory	-	-	3	2	40	-	40	60	100
			Total	17	4	10	27	-	-	320	480	800
9	MC	CH209	Environmental Studies	2	-	-	2	15	25	40	60	100
10	MC	EA210	EAA: Physical Education and NSS	-	-	2	1	100	-	100	-	100

MC - Mandatory Course

Student Contact hours/week : 35

Total Credits : 27

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
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SCHEME OF INSTRUCTION AND EVALUATION
III - SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME
COMPUTER SCIENCE & ENGINEERING

S. No.	Course Category	Course Code	Course Name	Periods/Week			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	BS	U14MH302	Discrete Mathematics	3	1	-	4	15	25	40	60	100
3	ES	U14EI303	Digital Circuits and Logic Design	3	1	-	4	15	25	40	60	100
4	PC	U14CS304	Computer Architecture and Organization	3	1	-	4	15	25	40	60	100
5	PC	U14CS305	Data Structures and Algorithms	3	1	-	4	15	25	40	60	100
6	PC	U14CS306	Object Oriented Programming through Java	3	1	-	4	40	-	40	60	100
7	PC	U14CS307	Data Structures and Algorithms Laboratory	-	-	3	2	40	-	40	60	100
8	PC	U14CS308	Java Programming Laboratory	-	-	3	2	40	-	40	60	100
Total				18	6	6	28	-	-	320	480	800
9	MC	U14MH309	Soft and Interpersonal Skills	-	-	2	1	100	-	100	-	100

Student Contact Hours/Week : 32

Total Credits: 28

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
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SCHEME OF INSTRUCTION AND EVALUATION
IV - SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME
COMPUTER SCIENCE & ENGINEERING

S. No.	Course Category	Course Code	Course Name	Periods/Week			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	U14CS402	Theory of Computation	3	1	-	4	15	25	40	60	100
3	PC	U14CS403	Database Management Systems	3	1	-	4	15	25	40	60	100
4	PC	U14CS404	Software Engineering	3	1	-	4	15	25	40	60	100
5	PC	U14CS405	Operating Systems	3	1	-	4	15	25	40	60	100
6	PC	U14CS406	Database Management Systems Laboratory	-	-	3	2	15	25	40	60	100
7	PC	U14CS407	Operating Systems Laboratory	-	-	3	2	40	-	40	60	100
8	ES	U14EE412	Basic Electrical and Electronics Engineering Laboratory	-	-	3	2	40	-	40	60	100
Total				15	5	9	26	-	-	320	480	800
9	MC	U14MH409	Compliance with Current English	-	-	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

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
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SCHEME OF INSTRUCTION AND EVALUATION
V - SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME
COMPUTER SCIENCE & ENGINEERING

S. No.	Course Category	Course Code	Course Name	Periods/Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	PC	U14CS501	Computer Networks	3	1	-	4	15	25	40	60	100
2	PC	U14CS502	Design and Analysis of Algorithms	3	1	-	4	15	25	40	60	100
3	ES	U14EI503	Microprocessors and Interfacing	3	1	-	4	15	25	40	60	100
4	PC	U14CS504	Language Processors	3	1	-	4	15	25	40	60	100
5	PC	U14CS505	Web Programming	3	1	-	4	15	25	40	60	100
6	PC	U14CS506	Language Processors Laboratory	-	-	3	2	40	-	40	60	100
7	PC	U14CS507	Web Programming Laboratory	-	-	3	2	40	-	40	60	100
8	ES	U14EI510	Digital Electronics and Microprocessors Laboratory	-	-	3	2	40	-	40	60	100
9	PR	U14CS509	Seminar	-	-	-	1	100	-	100	-	100
Total				15	5	9	27	-	-	420	480	900

Student Contact Hours/Week : 29

Total Credits : 27

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL-15
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SCHEME OF INSTRUCTION AND EVALUATION
VI - SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME
COMPUTER SCIENCE & ENGINEERING

S. No.	Course Category	Course Code	Course Name	Periods/Week			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	U14CS602	Wireless and Mobile Communications	3	1	-	4	15	25	40	60	100
3	PC	U14CS603	Machine Learning	3	1	-	4	15	25	40	60	100
4	PC	U14CS604	Data Warehousing and Data Mining	3	1	-	4	15	25	40	60	100
5	PE	U14CS605	Cryptography and Network Security	3	1	-	4	15	25	40	60	100
6	PC	U14CS606	Professional Elective-I	4	-	-	4	15	25	40	60	100
7	PC	U14CS607	Data Analytics Laboratory	-	-	3	2	40	-	40	60	100
8	PC	U14CS608	GUI Programming Laboratory	-	-	3	2	40	-	40	60	100
9	PR	U14CS609	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

U14CS 606A: Advanced Databases

U14CS 606B: Computer Graphics and Multimedia

U14CS 606C: Embedded Systems

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SCHEME OF INSTRUCTION AND EVALUATION
VII - SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME
COMPUTER SCIENCE & ENGINEERING

S. No.	Course Category	Course Code	Course Name	Periods/Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	OE	U14OE701	Open Elective-II	4	-	-	4	15	25	40	60	100
2	PC	U14CS702	Middleware Technologies	3	1	-	4	15	25	40	60	100
3	PC	U14CS703	Cloud Computing	3	1	-	4	15	25	40	60	100
4	PE	U14CS704	Professional Elective-II	4	-	-	4	15	25	40	60	100
5	PE	U14CS705	Professional Elective-III	4	-	-	4	15	25	40	60	100
6	PC	U14CS706	Middleware Technologies Laboratory	-	-	3	2	40	-	40	60	100
7	PC	U14CS707	Object Oriented Analysis and Design Laboratory	-	-	3	2	40	-	40	60	100
8	PR	U14CS708	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

Open Elective-II

U14OE 701A: Operations Research
 U14OE 701B: Management Information Systems
 U14OE 701C: Entrepreneurship Development
 U14OE 701D: FOREX and Foreign Trade

Professional Elective-II

U14CS 704A: High Performance Computing
 U14CS 704B: Digital Image Processing
 U14CS 704C: Secure Software Engineering

Professional Elective-III

U14CS 705A: Soft Computing
 U14CS 705B: Design Patterns
 U14CS 705C: Human Computer Interaction

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SCHEME OF INSTRUCTION AND EVALUATION
VIII - SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME
COMPUTER SCIENCE & ENGINEERING

S. No.	Course Category	Course Code	Course Name	Periods/Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	HS	U14MH801	Management, Economics and Accountancy	3	1	-	4	15	25	40	60	100
2	PC	U14CS802	Software Testing and Quality Assurance	3	1	-	4	15	25	40	60	100
3	PE	U14CS803	Professional Elective-IV	4	-	-	4	15	25	40	60	100
4	PE	U14CS804	Professional Elective-V	4	-	-	4	15	25	40	60	100
5	PC	U14CS805	CASE Tools & Software Testing Laboratory	-	-	3	2	40	-	40	60	100
6	PC	U14CS806	Mobile Applications Development Laboratory	-	-	3	2	40	-	40	60	100
7	PR	U14CS807	Major Project Work <i>Phase- II</i>	-	-	13	7	40	-	40	60	100
Total				14	2	19	27	-	-	280	420	700

Student Contact Hours/Week : 35

Total Credits: 27

Professional Elective-IV

U14CS 803A: Big Data Management

U14CS 803B: Information Retrieval Systems

U14CS 803C: Natural Language Processing

Professional Elective-V

U14CS 804A: E-Commerce

U14CS 804B: Semantic Web and Social Networks

U14CS 804C: Web Services