ISO 9001:2015 AICTE-CII: GOLD Category Institute NAAC-'A' Grade Institute (CGPA: 3.21) NIRF-2021 Rank : 197

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.
काकतीय प्रैद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत
కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము
(An Autonomous Institute under Kakatiya University, Warangal)
(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)
website: www.kitsw.ac.in E-mail: principal@kitsw.ac.in ✆ : +91 9392055211, +91 7382564888

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)

B.Tech. CSE(Networks) – SCHEME (URR 18)

(*w.e.f. 2021-22)*

of

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

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL-15

(*An Autonomous Institution under Kakatiya University, Warangal*)

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VISION OF THE INSTITUTE

- *To make our students technologically superior and ethically strong by providing quality education with the help of our dedicated faculty and staff and thus improve the quality of human life*

MISSION OF THE INSTITUTE

- *To provide latest technical knowledge, analytical and practical skills, managerial competence and interactive abilities to students, so that their employability is enhanced*
- *To provide a strong human resource base for catering to the changing needs of the Industry and Commerce*
- *To inculcate a sense of brotherhood and national integrity*

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION OF THE DEPARTMENT

- *Attaining centre of excellence status in various fields of Computer Science and Engineering by offering worth full education, training and research to improve quality of software services for ever growing needs of the industry and society.*

MISSION OF THE DEPARTMENT

- *Practice qualitative approach and standards to provide students better understanding and profound knowledge in the fundamentals and concepts of computer science with its allied disciplines.*
- *Motivate students in continuous learning to enhance their technical, communicational, and managerial skills to make them competent and cope with the latest trends, technologies, and improvements in computer science to have a successful career with professional ethics.*
- *Involve students in analyze, design and experimenting with contemporary research problems in computer science to impact socio-economic, political and environmental aspects of the globe.*

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

UG - COMPUTER SCIENCE & ENGINEERING (NETWORKS) – CSN

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	**Within first few years after graduation**, the **COMPUTER SCIENCE AND ENGINEERING (NETWORKS)** graduates will be able to …
PEO1: Technical Expertise	*apply the fundamental knowledge of the core courses of computer science and networks for developing the effective software and network technology solutions*
PEO2: Successful Career	*excel in profession, higher education and entrepreneurship with updated technologies in software, computer networks and security based domains*
PEO3: Soft Skills and Life Long Learning	*exhibit professional ethics, effective communication and team work in solving engineering problems by adapting contemporary research towards sustainable development of society*

PROGRAM OUTCOMES (POs) & PROGRAM SPECIFIC OUTCOMES (PSOs)	
UG- COMPUTER SCIENCE & ENGINEERING (NETWORKS) – CSN	
PROGRAM OUTCOMES (POs)	**At the time of graduation**, the **COMPUTER SCIENCE AND ENGINEERING (NETWORKS)** graduates will be able to …
PO1: Engineering knowledge	*apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems*
PO2: Problem analysis	*identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences*
PO3: Design/development of solutions	*design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental Considerations*
PO4: Conduct investigations of complex problems	*use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions*
PO5: Modern tool usage	*create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations*
PO6: The engineerand society	*apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice*
PO7: Environment and sustainability	*understand the impact of the professional engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development*
PO8: Ethics	*apply ethical principles and commit to professional ethics, responsibilities, and norms of the engineering practice*
PO9: Individual and team work	*function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings*
PO10: Communication	*communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions*
PO11: Project management and finance	*demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments*
PO12: Life-long learning	*recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change*
PROGRAM SPECIFIC OUTCOMES (PSOs):	
PSO1	*apply the fundamental knowledge of computer science and engineering in developing effective software for real world complex engineering problems adapting advanced technologies*
PSO2	*design computer networks protocols and configure solutions for various network applications using contemporary hardware and software tools*
PSO3	*implement effective securities standards and investigate efficiency of existing security measures by continuous adaptation of latest updates in cyber security domains*

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION (*Applicable from B21 batch)*
I-SEMESTER OF 4-YEAR B. TECH DEGREE PROGRAM

[5Th+4P+2MC]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH101	Engineering Mathematics – I	3	1	-	4	10	30	40	60	100
2	ESC	U18CS102	Programming for Problem Solving using C	3	-	-	3	10	30	40	60	100
3	BSC	U18PH103	Engineering Physics	3	1	-	4	10	30	40	60	100
4	HSMC	U18MH104	English for Communication	2	-	2	3	10	30	40	60	100
5	ESC	U18EE105	Basic Electrical Engineering	3	1	-	4	10	30	40	60	100
6	ESC	U18EE106	Basic Electrical Engineering Laboratory	-	-	2	1	40	-	40	60	100
7	ESC	U18CS107	Programming for Problem Solving using C Laboratory	-	-	2	1	40	-	40	60	100
8	BSC	U18PH108	Engineering Physics Laboratory	_	_	2	1	40	-	40	60	100
9	ESC	U18ME109	Workshop Practice	-	_	2	1	10	30	40	60	100
10	MC	U18EA110	EAA *: Sports/Yoga/NSS	-	-	2	-	100	-	100	-	100
11	MC	U18MH111	Universal Human Value-I (*Induction Programme*)	-	-	-	-	-	-	-	-	-
			Total:	14	3	12	22	280	180	460	480	1000

[L= Lecture, T = Tutorials, P = Practical's & C = Credits] **EAA: Extra Academic Activity** *** indicates mandatory non-credit course**

Total Contact Periods/Week : 29 **Total Credits : 22**
Stream-I: ME, CSE, IT, CSN,CSE(IOT) **Stream-II: CE, EIE, EEE, ECE, ECI,CSE(AI&ML)**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION (*Applicable from B21 batch)*
II-SEMESTER OF 4-YEAR B. TECH DEGREE PROGRAM

[5Th+2P+2MC]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH201	Engineering Mathematics – II	3	1	-	4	10	30	40	60	100
2	ESC	U18CS202	Data Structures through C	3	-	-	3	10	30	40	60	100
3	BSC	U18CH203	Engineering Chemistry	3	1	-	4	10	30	40	60	100
4	ESC	U18ME204	Engineering Drawing	2	-	4	4	10	30	40	60	100
5	ESC	U18CE205	Engineering Mechanics	3	1	_	4	10	30	40	60	100
6	ESC	U18CS207	Data Structures through C Laboratory	-	-	2	1	40	-	40	60	100
7	BSC	U18CH208	Engg. Chemistry Laboratory	_	_	2	1	40	-	40	60	100
8	MC	U18CH209	Environmental Studies*	2	_	-	-	40	-	40	60	100
9	MC	U18EA210	EAA: Sports/Yoga/NSS*	-	-	2	-	100	-	100	-	100
Total:				16	3	10	21	270	150	420	480	900

[L= Lecture, T = Tutorials, P = Practical's & C = Credits] **EAA: Extra Academic Activity** *** indicates mandatory non-credit course**

Total Contact Periods/Week: 29 **Total Credits: 21**

Stream-I: ME, CSE, IT, CSN, CSE(IOT) **Stream-II: CE, EIE, EEE, ECE, ECI, CSE(AI&ML)**

Internships: All students should plan for mandatory 6-8 weeks internship, from end of II semester to commencement of VII semester at industry/R&D organizations/industries of national importance (IITs/IIITs/NITs). As part of Internship Evaluation in VII Semester, students are expected to submit a well-documented internship report and give an informative ppt presentation in VII semester.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
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SCHEME OF INSTRUCTION & EVALUATION (*Applicable from B21 batch)*
III-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAM

[7Th+2P+1MC]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH301	Engineering Mathematics – III	3	1	-	4	10	30	40	60	100
2	HSMC	U18MH302	Professional English	_	_	2	1	100	-	100	-	100
3	PCC	U18CN303	Object Oriented Programming through JAVA	3	1	-	4	10	30	40	60	100
4	PCC	U18CN304	Operating Systems	3	-	-	3	10	30	40	60	100
5	PCC	U18CN305	Computer Architecture and Organization	3	-	-	3	10	30	40	60	100
6	PCC	U18CN306	Advanced Data Structures	3	-	-	3	10	30	40	60	100
7	ESC	U18EI309	Digital Electronics	3	-	-	3	10	30	40	60	100
8	PCC	U18CN310	Object Oriented Programming through Java Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18CN311	Advanced Data Structures Laboratory	_	_	2	1	40	-	40	60	100
10	MC	U18MH315	Essence of Indian Traditional Knowledge	2	-	-	-	10	30	40	60	100
			Total:	20	2	6	23	250	210	460	540	1000

[L= Lecture, T = Tutorials, P = Practicals & C = Credits]

Total Contact Periods/Week: 28 **Total Credits: 23**

Stream-I: ME, CSE, IT, CSN, CSE(IOT) **Stream-II: CE, EIE, EEE, ECE, ECI, CSE(AI&ML)**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15

(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION **(*Applicable from B21 batch)***

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

[6Th+3P+1MC]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	OE	U18OE401	Open Elective-II	3	1	-	4	10	30	40	60	100
2	HSMC	U18TP402	Soft and Inter Personal Skills	-	-	2	1	100	-	100	-	100
3	OE	U18OE403	Open Elective-I	3	-	-	3	10	30	40	60	100
4	PCC	U18CN404	Theory of Computation	3	-	-	3	10	30	40	60	100
5	PCC	U18CN405	Database Management Systems	3	-	-	3	10	30	40	60	100
6	PCC	U18CN406	Computer Networks	3	-	-	3	10	30	40	60	100
8	PCC	U18CN407	Database Management Systems Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18CN408	Computer Networks Laboratory	-	-	2	1	40	-	40	60	100
10	OE	U18OE411	Open Elective-I based lab	_	_	2	1	40	-	40	60	100
			Total:	17	1	8	20	280	180	460	540	1000
11	MC	U18CH416	Environmental Studies*	2	_	_	_	10	30	40	60	100

[L= Lecture, T = Tutorials, P = Practical's & C = Credits] **Total Contact Periods/Week = 26** **Total Credits: 20**

Stream-I: ME, CSE, IT, CSN, CSE(IOT) **Stream-II: CE, EIE, EEE, ECE, ECI, CSE(AI&ML)**

Open Elective-I: **U18OE403A: Object Oriented Programming (CSE)** **U18OE403B: Fluid Mechanics & Hydraulic Machines (CE)** **U18OE403C: Mechatronics (ME)** **U18OE403D: Web Programming (IT)** **U18OE403E: Microprocessors (ECE)** **U18OE403F: Strength of Materials (ME)**	**Open Elective-II:** **U18OE401A: Applicable Mathematics (MH)** **U18OE401B: Basic Electronics Engineering (ECE)** **U18OE401C: Elements of Mechanical Engineering (ME)** **U18OE401D: Measurements & Instrumentation (EIE)** **U18OE401E: Fundamentals of Computer Networks (IT)** **U18OE401F: Renewable Energy Sources (EEE)**	**Open Elective-I based Lab:** **U18OE411A: Object Oriented Programming Lab (CSE)** **U18OE411B: Fluid Mechanics & Hydraulic Machines Lab (CE)** **U18OE411C: Mechatronics Lab (ME)** **U18OE411D: Web Programming Lab (IT)** **U18OE411E: Microprocessors Lab (ECE)** **U18OE411F: Strength of Materials Lab (CE)**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION (*Applicable from B21 batch)*
V-SEMESTER OF 4-YEAR B. TECH DEGREE PROGRAM

[6Th+3P+Seminar]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	HSMC	U18TP501	Quantitative Aptitude & Logical Reasoning	2	_	_	1	10	30	40	60	100
2	PE	U18CN502	Professional Elective - I / MOOC-I	3	-	-	3	10	30	40	60	100
3	PCC	U18CN503	Advanced Computer Networks	3	1	-	4	10	30	40	60	100
4	PCC	U18CN504	Internet of Things	3	-	-	3	10	30	40	60	100
5	PCC	U18CN505	Compiler Design	3	-	-	3	10	30	40	60	100
6	PCC	U18CN506	Machine Learning	3	-	-	3	10	30	40	60	100
7	PCC	U18CN507	Advanced Computer Networks Laboratory	-	-	2	1	40	-	40	60	100
8	PCC	U18CN508	Internet of Things Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18CN509	Machine Learning with Python Programming Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18CN510	Seminar	-	-	2	1	100	-	100	-	100
			Total:	17	1	8	21	280	180	460	540	1000
***Additional Learning*:** *Maximum credits allowed for Honours/Minor*				-	-	-	*7*	-	-	-	-	-
			Total credits for Honours/Minor students:	-	-	-	***21+7***	-	-	-	-	-

** List of courses for additional learning through **MOOCs** towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula*

[L= Lecture, T = Tutorials, P = Practicals & C = Credits] **Total Contact Periods/Week :26** **Total Credits :21**

Professional Elective-I / MOOCs-I: **U18CN502A: Artificial Intelligence** **U18CN502B: Data Mining and Data Warehousing** **U18CN502C: Digital Image processing** **U18CN502M: MOOCs course**	**MOOCs**: Students are encouraged to do Massive Open Online Courses (MOOCs) on SWAYAM platform(https://www.swayam.gov.in) offered by NPTEL, CEC, IIM-B, IGNOU. Students shall contact the Head of the Department (HoD) to get their interested MOOCs approved by the HoD/Dean Academic Affairs for proper transfer of the credits for the MOOCs

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15

(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION (*Applicable from B21 batch)*

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

[5Th+3P+1MC+Miniproject]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	MC	U18MH601	Universal Human Values-II	2	1	_	-	10	30	40	60	100
2	OE	U18OE602	Open Elective – III	3	_	_	3	10	30	40	60	100
3	PE	U18CN603	Professional Elective - II / MOOC-II	3	-	-	3	10	30	40	60	100
4	PCC	U18CN604	Software Engineering	3	-	-	3	10	30	40	60	100
5	PCC	U18CN605	Cloud Computing	3	-	-	3	10	30	40	60	100
6	PCC	U18CN606	Cryptography and Network Security	3	-	-	3	10	30	40	60	100
7	PCC	U18CN607	Cryptography and Network Security Lab	-	-	2	1	40	-	40	60	100
	PCC	U18CN608	Cloud Computing Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18CN609	Advanced Java Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18CN610	Mini Project	-	-	2	1	100	-	100	-	100
Total:				**17**	**1**	**8**	**19**	**280**	**180**	**460**	**540**	**1000**
Additional Learning*: *Maximum credits allowed for Honours/Minor*				-	-	-	*7*	-	-	-	-	-
Total credits for Honours/Minor students:				**-**	**-**	**-**	***19+7***	**-**	**-**	**-**	**-**	**-**

** List of courses for additional learning through **MOOCs** towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula*

[L= Lecture, T = Tutorials, P = Practicals & C = Credits] **Total Contact Periods/Week: 26** **Total Credits: 19**

Open Elective-III:	**Professional Elective-II / MOOC-II:**
U18OE602A: Disaster Management	**U18CN603A: Mobile Computing**
U18OE602B: Project Management	**U18CN603B: Wireless Sensor Networks**
U18OE602C: Professional Ethics in Engineering	**U18CN603C: Wireless Communications**
U18OE602D: Rural Technology and Community Development	**U18CN603M: MOOCs Course**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
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SCHEME OF INSTRUCTION & EVALUATION (*Applicable from B21 batch)*
VII - SEMESTER OF 4-YEAR B. TECH DEGREE PROGRAM

[4Th+2P+ MP-I+ internship]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	HSMC	U18MH701	Management, Economics and Accountancy	3	_	_	3	10	30	40	60	100
2	PE	U18CN702	Professional Elective - III / MOOC-III	3	-	-	3	10	30	40	60	100
3	PE	U18CN703	Professional Elective - IV / MOOC-IV	3	-	-	3	10	30	40	60	100
4	PCC	U18CN704	Design and Analysis of Algorithms	3	-	-	3	10	30	40	60	100
5	PCC	U18CN705	Design and Analysis of Algorithms Laboratory	-	-	2	1	40	-	40	60	100
6	PCC	U18CN706	CASE Tools Lab	-	-	2	1	40	-	40	60	100
7	PROJ	U18CN707	Major Project - Phase – I	-	-	6	3	100	-	100	-	100
8	MC	U18CN708	Internship Evaluation	-	-	2	-	-	-	-	-	-
Total:				12	_	12	17	220	120	340	360	700
***Additional Learning*:** *Maximum credits allowed for Honours/Minor*				-	-	-	*7*	-	-	-	-	-
Total credits for Honours/Minor students:				-	-	-	***17+7***	-	-	-	-	-

** List of courses for additional learning through **MOOCs** towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula*

[L= Lecture, T = Tutorials, P = Practicals & C = Credits] **Total Contact Periods/Week: 24** **Total Credits: 17**

Professional Elective-III / MOOC-III:	**Professional Elective-IV / MOOC-IV:**
U18CN702A: Block Chain Technologies	**U18CN703A: Ethical Hacking**
U18CN702B: Storage Area Networks	**U18CN703B: Big Data Analytics**
U18CN702C: High Speed Networks	**U18CN703C: Web and Database Security**
U18CN702M: MOOCs course	**U18CN703M: MOOCs course**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION (*Applicable from B21 batch)*
VIII - SEMESTER OF 4-YEAR B. TECH DEGREE PROGRAM

[3Th+ 1MP-II]

Sl. No	Category	Course Code	Course Title	Periods/week			Credits	Evaluation scheme				
				L	T	P	C	CIE			ESE	Total Marks
								TA	MSE	Total		
1	PE	U18CN801	Professional Elective - V / MOOC-V	3	-	-	3	10	30	40	60	100
2	PE	U18CN802	Professional Elective - VI / MOOC-VI	3	-	-	3	10	30	40	60	100
3	OE	U18OE803	Open Elective - IV / MOOC-VII	3	-	-	3	10	30	40	60	100
4	PROJ	U18CN804	Major Project - Phase – II	-	-	14	7	60	-	60	40	100
5	PCC	U18CN805	Mobile Application Development Laboratory	-	-	-	-	-	-	-	-	-
Total				9	-	14	16	90	90	180	220	400
***Additional Learning*:** *Maximum credits allowed for Honours/Minor*				-	-	-	*7*	-	-	-	-	-
Total credits for Honours/Minor students:				-	-	-	***16+7***	-	-	-	-	-

** List of courses for additional learning through **MOOCs** towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula*

[L= Lecture, T = Tutorials, P = Practicals & C = Credits] **Total Contact Periods/Week: 23** **Total Credits: 16**

Professional Elective-V / MOOC-V:	**Professional Elective-VI/ MOOC-VI:**	**Open Elective-IV/MOOCs-VII:**
U18CN801A: Software Defined Networking	**U18CN802A: Network Automation**	**U18OE803A: Operations Research**
U18CN801B: Cyber Security and Digital Forensic	**U18CN802B: Data Science**	**U18OE803B: Management Information Systems**
U18CN801C: Advanced Real-World Data Networks	**U18CN802C: Fog and Edge Computing**	**U18OE803C: Entrepreneurship Development**
U18CN801M: MOOCs course	**U18CN802M: MOOCs course**	**U18OE803D: Forex & Foreign Trade**
		U18OE803M: MOOCs Course

*Note: An Android course with at least 2-weeks duration must be done by students and should submit course completion certificate

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (NETWORKS)
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:: WARANGAL – 15
(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTION & EVALUATION

I to VIII SEMESTER OF 4-YEAR B. TECH DEGREE PROGRAM

SEMESTER Vs COURSE CATEGORY WEIGHTAGE

(in terms of Total No. of Courses / Total No. Credits)

Semester	Number of Courses / Number of Credits (*Course Category wise*)									
	BSC	**ESC**	**HSMC**	**PCC**	**OE**	**PE**	**MC**	**PROJ**	**TOTAL**	***B.Tech (Honours/Minor) Programme***
I	3/9	5/10	1/3	-	-	-	2/0	-	**11/22**	***Additional 20 credits through 8 courses out of the list of courses prescribed under Honours/Minor curricula***
II	3/9	4/12	-	-	-	-	2/0	-	**9/21**	
III	1/4	1/3	1/1	6/15	-	-	1/0	-	**10/24**	
IV	-	-	1/1	5/11	3/8	-	1/0	-	**10/20**	
V	-	-	1/1	7/16	-	1/3	-	1/1	**10/21**	
VI	-	-		6/12	1/3	1/3	1/0	1/1	**10/19**	
VII	-	-	1/3	3/5	-	2/6	1/0	1/3	**8/17**	
VIII	-	-	-	1/0	1/3	2/6	-	1/7	**5/16**	
Total	**7/22**	**10/25**	**5/9**	**29/60**	**5/14**	**6/18**	**8/0**	**4/12**	**74/160**	***(74+8) / (160+20)***
% Weightage of Course Category	**13.75 % (22/160)**	**15.625 % (25/160)**	**5.625 % (9/160)**	**37. 5 % (60/160)**	**8.75 % (14/160)**	**11.25 % (18/160)**	**0 %**	**7.5 % (12/160)**	**100 % (160/160)**	**-**