

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA. काकतीय प्रेद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగర్ - ೫०६ ०೧೫ ತಿಲಂಗಾಣ, 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)

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DEPARTMENT OF INFORMATION TECHNOLOGY

B.Tech - INFORMATION TECHNOLOGY

URR-18-R1

(Applicable from the Academic Year 2020-21)

SCHEME (III to VIII SEMESTERS)



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SCHEME OF INSTRUCTION AND EVALUATION III-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME

[6Th+3P+1MC]

			Course Title	Hours Weel			Credits	Evaluation Scheme			ie	
Sl. No.	Course Category	Course Code		L	Т	P						
				L	•	•		ΤΑ	CIE	Tatal	ECE	Total Marks
1	BSC	U18MH301	Engineering Mathematics-III	3	1		4	TA 10	MSE 30	Total 40	60	100
			U U		1	2			30		60	
2	HSMC	U18MH302	Professional English	-	-	2	1	100	-	100	-	100
3	PCC	U18IT303_R1	Advanced Data Structures	3	1	-	3	10	30	40	60	100
4	BSC	U18MH304	Discrete Mathematics	3	1	-	3	10	30	40	60	100
5	PCC	U18IT305	Computer Architecture and Organization	3	-	-	3	10	30	40	60	100
6	ESC	U18EC306	Switching Theory and Logic Design	3	-	-	3	10	30	40	60	100
7	PCC	U18IT307	Operating Systems	3	-	-	3	10	30	40	60	100
8	PCC	U18IT308_R1	Advanced Data Structures Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT309	Operating Systems Laboratory	-	-	2	1	40	-	40	60	100
10	MC	U18MH315	Essence of Indian Traditional Knowledge*	2	-	-	-	10	30	40	60	100
			Total	20	1	6	22	250	210	460	540	1000

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

Contact hours per week : 27

Total Credits : 22



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SCHEME OF INSTRUCTION AND EVALUATION
IV-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME

[5Th+4P+1MC]

					ırs pe Teek	er		Evaluation Scheme							
Sl. No.	Course Category	Course Code	Course Title	L	Т	P	Credits								
								TA MSE Total			ESE	Total Marks			
1	OE	U18OE401	Open Elective-II	3	1	-	4	10	30	40	60	100			
2	HSMC	U18TP402	Soft and Interpersonal Skills	-	-	2	1	100	-	100	-	100			
3	OE	U18OE403	Open Elective-I	3	-	-	3	10	30	40	60	100			
4	PCC	U18IT404	Theory of Computation	3	1	1	3	10	30	40	60	100			
5	PCC	U18IT405	Database Management Systems	3	1	1	4	10	30	40	60	100			
6	PCC	U18IT406	Java Programming	3	ı	ı	3	10	30	40	60	100			
7	PCC	U18IT407	Java Programming Lab	-	-	2	1	40	-	40	60	100			
8	PCC	U18IT408	Database Management Systems Laboratory	-	-	2	1	40	-	40	60	100			
9	OE	U18OE411	Open Elective-I based Lab	-	-	2	1	40	-	40	60	100			
10	MC	U18CH416	Environmental Studies*	2	-	ı	-	10	30	40	60	100			
		_	Total	15/17*	2	8	21	270/280*	150/180*	420/460*	480/540*	900/1000*			

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

* indicates mandatory non-credit course for Lateral Entry Students only Contact hours per week: 25/27* Total Credits: 21

Open Elective-I	Open Elective-II	Open Elective-I based Laboratory
U18OE403B: Fluid Mechanics & Hydraulic Machines (CE)	U18OE401A: Applicable Mathematics (M&H)	U18OE411B: Fluid Mechanics & Hydraulic
U18OE403C: Mechatronics (ME)	U18OE401B: Basic Electronics Engineering (ECE)	Machines Laboratory (CE)
U18OE403E: Microprocessors(ECE)	U18OE401C: Elements of Mechanical Engineering (ME)	U18OE411C: Mechatronics Laboratory (ME)
U18OE403F: Strength of Materials (CE)	U18OE401D: Measurements & Instrumentation (EIE)	U18OE411E: Microprocessors Laboratory (ECE)
	U18OE401F: Renewable Energy Sources (EEE)	U18OE411F: Strength of Materials Laboratory (CE)



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SCHEME OF INSTRUCTION AND EVALUATION

V-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME [6Th+3P+1 Seminar]

					ours _J Weel		_	Evaluation Scheme						
Sl. No.	Course Category	Course Code	Course Title	,	T	P	Credits							
				L	1	r	1		CIE	ı	ESE	Total		
								TA	MSE	Total		Marks		
1	HSMC	U18TP501	Quantitative Aptitude and Logical Reasoning	2	-	-	1	10	30	40	60	100		
2	PE	U18IT502	Professional Elective-I/MOOCs-I	3	-	-	3	10	30	40	60	100		
3	PCC	U18IT503	Design and Analysis of Algorithms	3	-	_	3	10	30	40	60	100		
4	PCC	U18IT504	Web Technologies	3	-	-	3	10	30	40	60	100		
5	PCC	U18IT505	Computer Networks	3	-	-	3	10	30	40	60	100		
6	PCC	U18IT506	Compilers	3	-	-	3	10	30	40	60	100		
7	PCC	U18IT507	Design and Analysis of Algorithms Lab	-	-	2	1	40	-	40	60	100		
8	PCC	U18IT508	Web Technologies Laboratory	-	-	2	1	40	-	40	60	100		
9	PCC	U18IT509	GUI Programming Laboratory	-	-	2	1	40	-	40	60	100		
10	PROJ	U18IT510	Seminar	-	-	2	1	100	-	100	-	100		
			Total:	17	-	8	20	280	180	460	540	1000		
	Additiona	al Learning*:	Maximum credits allowed for Honours/Minor	-	-	_	7	-	-	-	-	-		
			Total credits for Honours/Minor students:	-	-	-	20+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; Contact hours per week: 25

Professional Elective-I / MOOCs-I:

U18IT502A: Principles of Programming Languages

U18IT502B: Neural Networks

U18IT502C: Computer Graphics & Multimedia

U18IT502M: MOOCs- I Course



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SCHEME OF INSTRUCTION AND EVALUATION VI-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME

[6Th+2P+1MC+1Mini Project]

		Category Code Course Little			Evaluation Scheme							
S1. No.	Course Category			_	Credits							
				L	T	P	P		CIE			Total
								TA	MSE	Total	ESE	Marks
1	MC	U18MH601	Universal Human Values-II	2	-	-	-	10	30	40	60	100
2	OE	U18OE602	Open Elective-III	3	-	-	3	10	30	40	60	100
3	PE	U18IT603	Professional Elective-II/MOOCs-II	3	-	-	3	10	30	40	60	100
4	PCC	U18IT604	Cryptography and Network Security	3	-	-	3	10	30	40	60	100
5	PCC	U18IT605	Artificial Intelligence	3	-	-	3	10	30	40	60	100
6	PCC	U18IT606	Data Warehousing and Data Mining	3	-	-	3	10	30	40	60	100
7	PCC	U18IT607	Software Engineering	3	-	1	3	10	30	40	60	100
8	PCC	U18IT608	Data Mining using Python Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT609	Software Testing Laboratory		-	2	1	40	-	40	60	100
10	PROJ	U18IT610	Mini Project	-	-	2	1	100	_	100	-	100
			Total:	20	-	6	21	250	210	460	540	1000
	Addition	al 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; Contact hours per week: 26

Open Elective-III	Professional Elective-II / MOOCs-II
U18OE602A: Disaster Management	U18IT603A: Distributed Computing
U18OE602B: Project Management	U18IT603B: Information Retrieval Systems
U18OE602C: Professional Ethics in Engineering	U18IT603C: Advanced Databases
U18OE602D: Rural Technology and Community Development	U18IT603M: MOOCs- II Course



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SCHEME OF INSTRUCTION AND EVALUATION VII-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME

[4Th+2P+1MC+1 Major Project]

Sl.	Course	Course		Hours pe Week		-		Evaluation Scheme					
No.	Category	Code	Course Title	L	Т	P	Credits	TA	CIE MSE	Total	ESE	Total Marks	
1	HSMC	U18MH701	Management, Economics & Accountancy	3	-	-	3	10	30	40	60	100	
2	PE	U18IT702	Professional Elective-III/MOOCs-III	3	-	-	3	10	30	40	60	100	
3	PE	U18IT703	Professional Elective-IV/MOOCs-IV	3	-	-	3	10	30	40	60	100	
4	PCC	U18IT704	Internet of Things	3	-	-	3	10	30	40	60	100	
5	PCC	U18IT705	Scripting Languages Laboratory	ı	-	2	1	40	-	40	60	100	
6	PCC	U18IT706	Modeling and Project Management Laboratory	ı	-	2	1	40	-	40	60	100	
7	PROJ	U18IT707	Major Project Work Phase-I	1	-	6	3	100	-	100	1	100	
8	MC	U18IT708	Internship Evaluation	-	-	2	-	100	-	100	ı	100	
			Total:	12	-	12	17	320	120	440	360	800	
1	Additional	Learning*: N	laximum credits allowed for Honours/Minor	-	-	-	7	-	-	-	-	-	
			otal credits for Honours/Minor students:	-	-	-	17+7	- 11	-	-	-	-	

^{*} 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; Contact hours per week : 24

Professional Elective-III / MOOCs-III	Professional Elective-IV / MOOCs-IV
U18IT702A: Advanced Data Mining	U18IT703A: Machine Learning
U18IT702B: Cloud Computing	U18IT703B: Service Oriented Architecture
U18IT702C: Adhoc and Sensor Networks	U18IT703C: Digital Image Processing
U18IT702M: MOOCs-III Course	U18IT703M: MOOCs-IV Course



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SCHEME OF INSTRUCTION AND EVALUATION VIII-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME

[3Th+1 Major Project]

				Hours per Week				Evaluation Scheme					
S1. No.	Course Category	Course Code	Course Title	L	Т	T P	Credits		CIE			Total	
								TA		Total	ESE	Marks	
1	PE	U18IT801	Professional Elective-V/MOOCs-V	3	-	-	3	10	30	40	60	100	
2	PE	U18IT802	Professional Elective-VI/MOOCs-VI	3	-	-	3	10	30	40	60	100	
3	OE	U18OE803	Open Elective - IV/MOOCs-VII	3	-	-	3	10	30	40	60	100	
4	PROJ	U18IT804	Major Project Work Phase-II	•	-	14	7	40	-	40	60	100	
	Total:				_	14	16	70	90	160	240	400	
Ad	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; Contact hours per week : 23

Professional Elective-V/ MOOCs-V	Professional Elective-VI / MOOCs-VI
U18IT801A: Computer Forensics	U18IT802A: Data Science
U18IT801B: Big Data Analytics	U18IT802B: Predictive Analytics
U18IT801C: Blockchain Technologies	U18IT802C: Cyber Security
U18IT801M: MOOCs-V Course	U18IT802M: MOOCs-VI Course
	U18IT801A: Computer Forensics U18IT801B: Big Data Analytics U18IT801C: Blockchain Technologies