

**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**  
**INFORMATION TECHNOLOGY**

S. No.	Course Category	Course Code	Course Name	Periods			Credits (C)	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BS	U14MH101	Engineering Mathematics-I	3	1	-	4	15	25	40	60	100
2	ES	U14CS102	Programming in C	3	1	-	4	15	25	40	60	100
3	BS	U14PH103	Engg. Physics /	3	1	-	4	15	25	40	60	100
	BS	U14CH103	Engg. Chemistry	3	1	-	4	15	25	40	60	100
4	BS	U14MH104	English for Communication /	2	2	-	3	15	25	40	60	100
	ES	U14ME104	Engineering Drawing	2	4	-	4	15	25	40	60	100
5	ES	U14EI105	Basic Electronics Engg./	3	-	-	3	15	25	40	60	100
	ES	U14EE105	Basic Electrical Engg.	3	-	-	3	15	25	40	60	100
6	ES	U14ME106	Basic Mechanical Engg./	3	-	-	3	15	25	40	60	100
	ES	U14CE106	Basic Engg. Mechanics	3	1	-	4	15	25	40	60	100
7	ES	U14CS107	Programming in "C" Lab	-	-	3	2	40	-	40	60	100
8	BS	U14PH108	Engg. Physics Lab /	-	-	3	2	40	-	40	60	100
	BS	U14CH108	Engg. Chemistry Lab	-	-	3	2	40	-	40	60	100
9	ES	U14ME109	Engg. Workshop Practice /	-	-	3	2	40	-	40	60	100
	MC	U14CH109	Environmental Studies #	2	-	-	2	15	25	40	60	100
10	MC	U14EA110	EAA: Physical Education & NSS #	-	-	2	1	100	-	100	-	100
			<b>Total</b>	<b>17/19</b>	<b>5/8</b>	<b>11/8</b>	<b>28/30</b>					<b>1000</b>

**Note:** L - Lectures; T- Tutorials; P - Practicals; CIE - Continuous Internal Evaluation; TA - Teachers Assessment; MSE - Mid Semester Examination; ESE - End Semester Examination; EAA - Extra Academic Activity; # indicates Mandatory Course

**Student Contact Hours / Week** : Stream-I = 33 (periods/week); Stream-II = 35 (periods /week)

**Total Credits (C)** : Stream-I = 28 Credits; Stream-II = 30 Credits

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**SCHEME OF INSTRUCTION AND EVALUATION**  
**II SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME**  
**INFORMATION TECHNOLOGY**

S. No.	Course Category	Course Code	Course Name	Periods			Credits (C)	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BS	U14MH201	Engineering Mathematics-II	3	1	-	4	15	25	40	60	100
2	ES	U14CS202	Object Oriented Programming through C++	3	1	-	4	15	25	40	60	100
3	BS	U14CH203	Engg. Chemistry /	3	1	-	4	15	25	40	60	100
	BS	U14PH203	Engg. Physics	3	1	-	4	15	25	40	60	100
4	ES	U14ME204	Engineering Drawing /	2	4	-	4	15	25	40	60	100
	BS	U14MH204	English for Communication	2	2	-	3	15	25	40	60	100
5	ES	U14EE205	Basic Electrical Engg. /	3	-	-	3	15	25	40	60	100
	ES	U14EI205	Basic Electronics Engg.	3	-	-	3	15	25	40	60	100
6	ES	U14CE206	Basic Engg. Mechanics	3	1	-	4	15	25	40	60	100
	ES	U14ME206	Basic Mechanical Engg.	3	-	-	3	15	25	40	60	100
7	ES	U14CS207	Object Oriented Programming (OOP) Lab	-	-	3	2	40	-	40	60	100
8	BS	U14CH208	Engg. Chemistry Lab /	-	-	3	2	40	-	40	60	100
	BS	U14PH208	Engg. Physics Lab	-	-	3	2	40	-	40	60	100
9	MC	U14CH209	Environmental Studies #/	2	-	-	2	40	-	40	60	100
	ES	U14ME209	Engg. Workshop Practice	-	-	3	2	15	25	40	60	100
10	MC	U14EA210	EAA: Physical Education & NSS #	-	-	2	1	100	-	100	-	100
			<b>Total</b>	<b>19/ 17</b>	<b>8/ 5</b>	<b>8/ 11</b>	<b>30/ 28</b>					<b>1000</b>

**Note:** L - Lectures; T- Tutorials; P - Practicals; CIE - Continuous Internal Evaluation; TA - Teachers Assessment; MSE - Mid Semester Examination; ESE - End Semester Examination; EAA - Extra Academic Activity; # indicates Mandatory Course

**Student Contact Hours / Week** : Stream-I = 35 (periods/week); Stream-II = 33 (periods /week)

**Total Credits(C)** : Stream-I = 30 Credits; Stream-II = 28 Credits

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**SCHEME OF INSTRUCTION AND EVALUATION**

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

**INFORMATION TECHNOLOGY**

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	BS	U14MH302	Discrete Mathematics	3	1	-	4	15	25	40	60	100
3	ES	U14EC303	Digital Circuits and Logic Design	3	1	-	4	15	25	40	60	100
4	PC	U14IT304	Computer Architecture and Organization	3	1	-	4	15	25	40	60	100
5	PC	U14IT305	Data Structures and Algorithms	3	1	-	4	15	25	40	60	100
6	PC	U14IT306	Principles of Programming Languages	3	1	-	4	15	25	40	60	100
7	PC	U14IT307	Data Structures and Algorithms Laboratory	-	-	3	2	40	-	40	60	100
8	ES	U14EE312	Basic Electrical and Electronics Engineering Laboratory	-	-	3	2	40	-	40	60	100
			<b>Total</b>	<b>18</b>	<b>6</b>	<b>6</b>	<b>28</b>	<b>170</b>	<b>150</b>	<b>320</b>	<b>480</b>	<b>800</b>
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**  
**INFORMATION TECHNOLOGY**

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	U14IT402	Design and Analysis of Algorithms	3	1	-	4	15	25	40	60	100
3	PC	U14IT403	Database Management Systems	3	1	-	4	15	25	40	60	100
4	PC	U14IT404	Java Programming	3	1	-	4	15	25	40	60	100
5	ES	U14EC410	Microprocessors	3	1	-	4	15	25	40	60	100
6	PC	U14IT405	Java Programming Laboratory	-	-	3	2	40	-	40	60	100
7	PC	U14IT406	Database Management Systems Laboratory	-	-	3	2	40	-	40	60	100
8	ES	U14EC411	Microprocessors Laboratory	-	-	3	2	40	-	40	60	100
			<b>Total</b>	<b>15</b>	<b>5</b>	<b>9</b>	<b>26</b>	<b>195</b>	<b>125</b>	<b>320</b>	<b>480</b>	<b>800</b>
9	MC	U14MH409	Soft and Interpersonal Skills	-	-	2	1	100	-	100	-	100
10	MC#	U14CH209	Environmental Studies	2	-	-	2	15	25	40	60	100

# For Lateral Entry Students Only    Student Contact Hours /Week: 31+2#    Total Credits: 26

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**V SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME**  
**INFORMATION TECHNOLOGY**

S. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	PC	U14IT501	Computer Networks	3	1	-	4	15	25	40	60	100
2	PC	U14IT502	Software Engineering	3	1	-	4	15	25	40	60	100
3	PC	U14IT503	Theory of Computation	3	1	-	4	15	25	40	60	100
4	PC	U14IT504	Operating Systems	3	1	-	4	15	25	40	60	100
5	PC	U14IT505	Web Technologies	3	1	-	4	15	25	40	60	100
6	PC	U14IT506	Cryptography and Network Security	3	1	-	4	15	25	40	60	100
7	PC	U14IT507	Web Technologies Laboratory	-	-	3	2	40	-	40	60	100
8	PC	U14IT508	Operating Systems Laboratory	-	-	3	2	40	-	40	60	100
9	PR	U14IT509	Seminar	-	-	-	1	100	-	100	-	100
			<b>Total</b>	<b>18</b>	<b>6</b>	<b>6</b>	<b>29</b>	<b>270</b>	<b>150</b>	<b>420</b>	<b>480</b>	<b>900</b>

Student Contact Hours / Week: 30

Total Credits: 29

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

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	U14IT602	Language Processors	3	1	-	4	15	25	40	60	100
3	PC	U14IT603	Object Oriented Analysis and Design	3	1	-	4	15	25	40	60	100
4	PC	U14IT604	GUI Programming	3	1	-	4	15	25	40	60	100
5	PE	U14IT605	Professional Elective-I	4	-	-	4	15	25	40	60	100
6	PC	U14IT606	Object Oriented Analysis and Design Laboratory	-	-	3	2	40	-	40	60	100
7	PC	U14IT607	Language Processors Laboratory	-	-	3	2	40	-	40	60	100
8	PC	U14IT608	GUI Programming Laboratory	-	-	3	2	40	-	40	60	100
9	PR	U14IT609	Mini Project		-	-	2	100	-	100	-	100
			<b>Total</b>	<b>17</b>	<b>3</b>	<b>9</b>	<b>28</b>	<b>295</b>	<b>125</b>	<b>420</b>	<b>480</b>	<b>900</b>

**Student Contact Hours / Week: 29**

**Open Elective-I**

U14OE 601A : Disaster Management

U14OE 601B : Project Management

U14OE 601C : Professional Ethics in Engineering

U14OE 601D : Rural Technology and Community Development

**Total Credits: 28**

**Professional Elective-I**

U14IT 605A: Distributed Computing

U14IT 605B: Neural Networks

U14IT 605C: Information Retrieval Systems

U14IT 605D: Computer Graphics and Multimedia

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**VII SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME**  
**INFORMATION TECHNOLOGY**

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	U14IT702	Cloud Computing	3	1	-	4	15	25	40	60	100
3	PC	U14IT703	Data Warehousing and Data Mining	3	1	-	4	15	25	40	60	100
4	PE	U14IT704	Professional Elective-II	4	-	-	4	15	25	40	60	100
5	PE	U14IT705	Professional Elective -III	4	-	-	4	15	25	40	60	100
6	PC	U14IT706	Software Testing Laboratory	-	-	3	2	40	-	40	60	100
7	PC	U14IT707	Data Engineering Laboratory	-	-	3	2	40	-	40	60	100
8	PR	U14IT708	Major Project Work <i>Phase-I</i>	-	-	7	4	100	-	100	-	100
<b>Total</b>				<b>17</b>	<b>3</b>	<b>13</b>	<b>28</b>	<b>255</b>	<b>125</b>	<b>380</b>	<b>420</b>	<b>800</b>

**Student Contact Hours / Week: 33**

**Total Credits: 28**

**Professional Elective-II**

U14IT 704A: Artificial Intelligence  
 U14IT 704B: Semantic Web  
 U14IT 704C: Pattern Recognition

**Professional Elective-III**

U14IT 705A: Social Network Analysis  
 U14IT 705B: Service Oriented Architecture  
 U14IT 705C: Digital Image Processing

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**INFORMATION TECHNOLOGY**

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	U14IT802	Wireless Communications	3	1	-	4	15	25	40	60	100
3	PE	U14IT803	Professional Elective-IV	4	-	-	4	15	25	40	60	100
4	PE	U14IT804	Professional Elective-V	4	-	-	4	15	25	40	60	100
5	PC	U14IT805	Networks Simulation Laboratory	-	-	3	2	40	-	40	60	100
6	PC	U14IT806	Mobile Applications Development Laboratory	-	-	3	2	40	-	40	60	100
7	PR	U14IT807	Major Project Work <i>Phase-II</i>	-	-	13	7	40	-	40	60	100
			<b>Total</b>	<b>15</b>	<b>1</b>	<b>19</b>	<b>27</b>	<b>180</b>	<b>100</b>	<b>280</b>	<b>420</b>	<b>700</b>

**Student Contact Hours /Week: 35**

**Total Credits: 27**

**Open Elective-II**

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

**Professional Elective-IV**

U14IT 803A: Scripting Languages  
 U14IT 803B: Machine Learning  
 U14IT 803C: Software Project Management

**Professional Elective-V**

U14IT 804A: Big Data Analytics  
 U14IT 804B: Embedded Systems  
 U14IT 804C: Design Patterns