

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL - 15

(An Autonomous Institute under Kakatiya University, Warangal)

SCHEME OF INSTRUCTIONS & EVALUATION FOR B.TECH. 4-YEAR DEGREE PROGRAMME

BRANCH : COMMON FOR ALL BRANCHES

SEMESTER : FIRST

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

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 INSTRUCTIONS & EVALUATION FOR B.TECH. 4-YEAR DEGREE PROGRAMME

BRANCH : COMMON FOR ALL BRANCHES

SEMESTER : SECOND

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

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

KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE: WARANGAL-506 015*(An Autonomous Institute under Kakatiya University)***SCHEME OF INSTRUCTION AND EVALUATION****III SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME****CIVIL ENGINEERING****[(6+2) +1]**

Sl. 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	U14CE302	Strength of Materials – I	3	1	-	4	15	25	40	60	100
3.	PC	U14CE303	Fluid Mechanics	3	1	-	4	15	25	40	60	100
4.	PC	U14CE304	Surveying - I	3	1	-	4	15	25	40	60	100
5.	PC	U14CE305	Building Materials and Construction	4	0	-	4	15	25	40	60	100
6.	PC	U14CE306	Engineering Geology	4	0	-	4	15	25	40	60	100
7.	PC	U14CE307	Survey Field Work - I	-	-	3	2	40	-	40	60	100
8.	PC	U14CE308	Fluid Mechanics Laboratory	-	-	3	2	40	-	40	60	100
Total				20	4	6	28	170	150	320	480	800
9.	MC	U14MH309	Soft and Inter Personal Skills	-	-	2	1	100	-	100		100

Student Contact Hours/Week: 32

Total Credits: 28

KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE: WARANGAL-506 015

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SCHEME OF INSTRUCTION AND EVALUATION

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

CIVIL ENGINEERING

[(5+3) +2]

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	U14CE402	Strength of Materials - II	3	1	-	4	15	25	40	60	100
3.	PC	U14CE403	Hydraulics and Hydraulic Machines	3	1	-	4	15	25	40	60	100
4.	PC	U14CE404	Surveying - II	3	1	-	4	15	25	40	60	100
5.	PC	U14CE405	Concrete Technology	3	1	-	4	15	25	40	60	100
6.	PC	U14CE406	Survey Field Work - II	-	-	3	2	40	-	40	60	100
7.	PC	U14CE407	Hydraulics and Hydraulic Machines Laboratory	-	-	3	2	40	-	40	60	100
8.	ES	U14EE410	Basic Electrical Measurements and Instrumentation Laboratory	-	-	3	2	40	-	40	60	100
Total				15	5	9	26	195	125	320	480	800
9.	MC	U14MH409	Compliance with Current English	-	-	2	-	100	-	100	-	100
10.	MC#	U14CH209	Environmental Studies	2	-	-	2	15	25	40	60	100

Student Contact Hours/Week: 31+2#

For lateral entry students only

Total Credits: 26

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V SEMESTER OF 4-YEAR B.TECH. DEGREE PROGRAMME
CIVIL ENGINEERING****[(5+3) +1]**

Sl. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1.	PC	U14CE501	Structural Analysis - I	3	1	-	4	15	25	40	60	100
2.	PC	U14CE502	Design of Reinforced Concrete Structures	3	1	-	4	15	25	40	60	100
3.	PC	U14CE503	Geotechnical Engineering - I	3	1	-	4	15	25	40	60	100
4.	PC	U14CE504	Highway Engineering	3	1	-	4	15	25	40	60	100
5.	PC	U14CE505	Environmental Engineering	3	1	-	4	15	25	40	60	100
6.	PC	U14CE506	Material Testing Laboratory	-	-	3	2	40	-	40	60	100
7.	PC	U14CE507	Concrete Technology Laboratory	-	-	3	2	40	-	40	60	100
8.	PC	U14CE508	Computer Aided Building Drawing Laboratory	-	-	3	2	40	-	40	60	100
9.	PR	U14CE509	Seminar	-	-	-	1	100	-	100	-	100
Total				15	5	9	27	295	125	420	480	900

Student Contact Hours/Week: 29

Total Credits: 27

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Sl. 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	0	-	4	15	25	40	60	100
2.	PC	U14CE602	Structural Analysis-II	3	1	-	4	15	25	40	60	100
3.	PC	U14CE603	Design of Steel Structures	3	1	-	4	15	25	40	60	100
4.	PC	U14CE604	Geotechnical Engineering - II	3	1	-	4	15	25	40	60	100
5.	PC	U14CE605	Engineering Hydrology	3	1	-	4	15	25	40	60	100
6.	PE	U14CE606	Professional Elective-I	4	0	-	4	15	25	40	60	100
7.	PC	U14CE607	Highway Engineering Laboratory	-	-	3	2	40	-	40	60	100
8.	PC	U14CE608	Geotechnical Engineering Laboratory	-	-	3	2	40	-	40	60	100
9.	PR	U14CE609	Mini Project	-	-	-	2	100	-	100	-	100
Total				20	4	6	30	270	150	420	480	900

Student Contact Hours/Week: 30

Total Credits: 30

Open Elective-I

U14OE601A Disaster Management
U14OE601B Project Management
U14OE601C Professional Ethics in Engineering
U14OE601D Rural Technology and Community Development

Professional Elective-I

U14CE606A Prestressed Concrete
U14CE606B Ground Improvement Techniques
U14CE606C Railway Engineering

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SCHEME OF INSTRUCTION AND EVALUATION

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

CIVIL ENGINEERING

[(5+2) +1]

Sl. No.	Course Category	Course Code	Course Name	Periods			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1.	OE	U14OE701	Open Elective - II	4	0	-	4	15	25	40	60	100
2.	PC	U14CE702	Irrigation Engineering and Hydraulic Structures	3	1	-	4	15	25	40	60	100
3.	PC	U14CE703	Estimation and Valuation	1	3	0	4	15	25	40	60	100
4.	PE	U14CE704	Professional Elective - II	4	0	-	4	15	25	40	60	100
5.	PE	U14CE705	Professional Elective -III	4	0	-	4	15	25	40	60	100
6.	PC	U14CE706	Environmental Engineering Laboratory	-	-	3	2	40	-	40	60	100
7.	PC	U14CE707	Civil Engineering Detailing Laboratory	-	-	3	2	40	-	40	60	100
8.	PR	U14CE708	Major Project Work: <i>Phase - I</i>	-	-	7	4	100	-	100	-	100
Total				16	4	13	28	255	125	380	420	800

Student Contact Hours/Week: 33

Total Credits: 28

Open Elective-II

U14OE701A Operation Research
 U14OE701B Management Information systems
 U14OE701C Entrepreneurship Development
 U14OE701D Forex and Foreign Trade

Professional Elective-II

U14CE704A Elements of Structural Dynamics
 U14CE704B Bridge Engineering
 U14CE704C Remote Sensing and Geographical Information systems

Professional Elective-III

U14CE705A Advanced Structural Design
 U14CE705B Airport Engineering
 U14CE705C Design of Environmental Engineering Systems.

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SCHEME OF INSTRUCTION AND EVALUATION

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

CIVIL ENGINEERING

[(4+2) +1]

Sl. No	Course Category	Course Code	Course Name	Periods			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	U14CE802	Construction Technology and Management	3	1	-	4	15	25	40	60	100
3.	PE	U14CE803	Professional Elective – IV	4	0	-	4	15	25	40	60	100
4.	PE	U14CE804	Professional Elective – V	4	0	-	4	15	25	40	60	100
5.	PC	U14CE805	Civil Engineering Software Applications Laboratory	-	0	3	2	40	-	40	60	100
6.	PC	U14CE806	Engineering Geology Laboratory	-	0	3	2	40	-	40	60	100
7.	PR	U14CE807	Major Project Work: <i>Phase - II</i>	-	-	13	7	40	-	40	60	100
Total				14	2	19	27	180	100	280	420	700

Student Contact Hours/Week: 35

Total Credits: 27

Professional Elective-IV

U14CE803A Finite Elements Analysis
 U14CE803B Earth Retaining Structures
 U14CE803C Watershed Management
 U14CE803D Repair and Rehabilitation of Structures

Professional Elective-V

U14CE804A Earthquake Engineering
 U14CE804B Construction Contracts Management
 U14CE804C Traffic Engineering and Transportation Planning
 U14CE804D Environmental Impact Assessment