

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Scheme of Instruction and Evaluation for 2 year Postgraduate program

M.TECH (SOFTWARE ENGINEERING)

SEMESTER - I

Course Code	Course Name	Periods per Week			Credits	Evaluation Scheme				
		L	P	T		CIE			ESE	Total Marks
						TA	MSE	Total		
P14SE101	Discrete Mathematics & Optimization Techniques	3	-	1	4	15	25	40	60	100
P14SE102	Object Oriented Software Engineering	3	-	1	4	15	25	40	60	100
P14SE103	Software Requirement and Estimation	3	-	1	4	15	25	40	60	100
P14SE104	Advanced Data Structures & Algorithms	3	-	1	4	15	25	40	60	100
P14SE105	Elective-I	3	-	1	4	15	25	40	60	100
P14SE106	Elective-II	3		1	4	15	25	40	60	100
P14SE107	Object Oriented Software Engineering Laboratory	-	3	-	2	40	-	40	60	100
P14SE108	Advanced Software Laboratory		3	-	2	40	-	40	60	100
P14SE109	Seminar			-	2	100	-	100	-	100
	Total	18	6	6	30	270	150	420	480	900

Elective-I

P14SE105A Secure Software Engineering
P14SE105B Component Based Software Engineering
P14SE105C Software Project Management
P14SE105D Service Oriented Architecture

Elective-II

P14SE106A Human Computer Interaction
P14SE106B Advanced Operating Systems
P14SE106C Real Time Systems
P14SE106D Information Systems and Auditing

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SEMESTER - II

Course Code	Course Name	Periods per Week			Credits	Evaluation Scheme				
		L	P	T		CIE			ESE	Total Marks
						TA	MSE	Total		
P14SE201	Software Architecture & Design Patterns	3	-	1	4	15	25	40	60	100
P14SE202	Software Quality Assurance & Testing	3	-	1	4	15	25	40	60	100
P14SE203	Advanced Data Mining	3	-	1	4	15	25	40	60	100
P14SE204	Cloud Computing	3	-	1	4	15	25	40	60	100
P14SE205	Elective-III	3	-	1	4	15	25	40	60	100
P14SE206	Elective-IV	3		1	4	15	25	40	60	100
P14SE207	Software Testing Laboratory	-	3	-	2	40	-	40	60	100
P14SE208	Data Engineering Laboratory	-	3	-	2	40	-	40	60	100
P14SE209	Comprehensive Viva-Voce	-	-	-	2		-		100	100
	Total	18	6	6	30	170	150	320	480	900

Elective-III

P14SE205A Model Driven Software Development
P14SE205B Information Retrieval System
P14SE205C Machine Learning
P14SE205D Semantic Web & Social networks

Elective-IV

P14SE206A Big Data Analytics
P14SE206B Mobile Computing
P14SE206C Soft Computing
P14SE206D Distributed Computing

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SEMESTER - III

<i>Course Code</i>	<i>Course Name</i>	<i>Period</i>	<i>Credits</i>	<i>Evaluation Scheme</i>				
				<i>CIE</i>			<i>ESE</i>	<i>Total Marks</i>
				<i>TA</i>	<i>MSE</i>	<i>Total</i>		
P14SE301	Industrial Training	08 Weeks	4	100	-	100	-	100
P14SE302	Dissertation	16 Weeks	8	100	-	100	-	100
<i>Total</i>			<i>12</i>	<i>200</i>	<i>-</i>	<i>200</i>	<i>-</i>	<i>200</i>

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SEMESTER - IV

<i>Course Code</i>	<i>Course Name</i>	<i>Period</i>	<i>Credits</i>	<i>Evaluation Scheme</i>				
				<i>CIE</i>			<i>ESE</i>	<i>Total Marks</i>
				<i>TA</i>	<i>MSE</i>	<i>Total</i>		
P14SE401	Dissertation	24 Weeks	12	40	-	40	60	100
Total			12	40	-	40	60	100