

GITAM UNIVERSITY

(Declared as Deemed to be University U/S 3 of UGC Act, 1956)



Scheme of Instruction
of
M.Tech. (Software Engineering)
(w.e.f 2008 -09 admitted batch)

Gandhi Nagar Campus, Rushikonda
VISAKHAPATNAM - 530 045
Website: www.gitam.edu

M. Tech. (Software Engineering)
Programme Code: EPRSW 200800
FIRST SEMESTER

Course Code	Name of the Course	Instruction hours				Maximum marks			Credits
		per week				C	S	Total	
		L	T	P	Total				
EPRSW101	Operating Systems	4			4	40	60	100	4
EPRSW102	Data Structures and Algorithms	4			4	40	60	100	4
EPRSW103	Database Management systems	4			4	40	60	100	4
EPRSW104	Software engineering	4			4	40	60	100	4
EPRSW105	Computer Organization	3			3	40	60	100	3
EPRSW111	Data structures Lab			3	3	100	--	100	2
EPRSW112	DBMS Lab			3	3	100	--	100	2
EPRSW113	Operating Systems Lab			3	3	100	--	100	2
Total									25

SECOND SEMESTER

Course Code	Name of the Course	Instruction hours				Maximum marks			Credits
		per week				C	S	Total	
		L	T	P	Total				
EPRSW201	Language processors	4			4	40	60	100	4
EPRSW202	Software System Architecture	3			3	40	60	100	3
EPRSW203	Object oriented Analysis and Design	3			3	40	60	100	3
EPRSW204	Computer Networks	4			4	40	60	100	4
EPRSW205	Software Requirements and Estimation	4			4	40	60	100	4
EPRSW211	Networks lab			3	3	100	--	100	2
EPRSW212	Object oriented Analysis and Design lab			3	3	100	--	100	2
Total									22

M. Tech. (Software Engineering)
THIRD SEMESTER

Course Code	Name of the Course	Instruction hours per week				Maximum marks			Credits
		L	T	P	Total	C	S	Total	
EPRSW321 Elective-I	Software reliability	4			4	40	60	100	4
EPRSW322 Elective-I	Data warehousing and Data Mining								
EPRSW323 Elective-I	Advanced Databases								
EPRSW324 Elective-I	Advanced Algorithms								
EPRSW331 Elective-II	object oriented software engineering	4			4	40	60	100	4
EPRSW332 Elective-II	Network Management								
EPRSW333 Elective-II	Cryptography and Network security								
EPRSW334 Elective-II	ECommerce								
Elective-II EPRSW335	Management Information systems								
EPRSW301	Software testing and Validation	4			4	40	60	100	4
EPRSW302	Software project management	4			4	40	60	100	4
EPRSW311	Project Phase-I			3	3	50	50	100	3
Total									19

FOURTH SEMESTER

Course Code	Name of the Course	Instruction hours per week				Maximum marks			Credits
		L	T	P	Total	C	S	Total	
EPRSW411	Project Phase-II			24		50	50	100	12
EPRSW412	Comprehensive Viva					100		100	2
Total									14

Total Credits: 80