(AFFILIATED TO JNTU, HYDERABAD) AMMAPALEM, KHAMMAM.

### **COURSE STRUCTURE FOR CSE DEPARTMENT**

#### B. TECH. COMPUTER SCIENCE AND ENGINEERING

#### I YEAR

Code	Subject	L	T/P/D	С
	English	2	-	4
	Mathematics - I	3	1	6
	Mathematical Methods	3	-	6
	Engineering Physics	3	-	6
	Engineering Chemistry	3	-	6
	Computer Programming	3	-	6
	Engineering Drawing	2	3	6
	Computer Programming Lab	-	3	4
	Engineering Physics/ Engineering Chemistry Lab	-	3	4
	English Language Communication Skills Lab	-	3	4
	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

#### II YEAR I SEMESTER

Code	Subject	L	T/P/D	С
	Probability and Statistics	4	-	4
	Mathematical Foundations of Computer Science	4	-	4
	Data Structures	4	-	4
	Digital Logic Design	4	-	4
	Electronic Devices and Circuits	4	-	4
	Basic Electrical Engineering	4	-	4
	Electrical and Electronics Lab	-	3	2
	Data Structures Lab	-	3	2
	Total	24	6	28

#### II YEAR II SEMESTER

Code	Subject	L	T/P/D	С
	Computer Organization	4	-	4
	Database Management Systems	4	-	4
	Java Programming	4	-	4
	Environmental studies	4	-	4
	Formal Languages and Automata Theory	4	-	4
	Design and Analysis of Algorithms	4	-	4
	Java Programming Lab	-	3	2
	Database Management Systems Lab	-	3	2
	Total	24	6	28

#### III YEAR I SEMESTER

Code	Subject	L	T/P/D	С
	Principles of Programming Languages	4	-	4
	OPEN ELECTIVE	4	-	4
	Human Values and Professional Ethics			
	Intellectual Property Rights			
	Disaster Management			
	Software Engineering	4	-	4
	Compiler Design	4	-	4
	Operating Systems	4	-	4
	Computer Networks	4	-	4
	Operating Systems Lab	-	3	2
	Compiler Design Lab	-	3	2
	Total	24	6	28

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## **COURSE STRUCTURE FOR CSE DEPARTMENT**

#### III YEAR II SEMESTER

Code	Subject	L	T/P/D	С
	Distributed Systems	4	-	4
	Information Security	4	-	4
	Object Oriented Analysis and Design	4	-	4
	Software Testing Methodologies	4	-	4
	Managerial Economics and Financial Analysis	4	-	4
	Web Technologies	4	-	4
	Case Tools and Web Technologies Lab	-	3	2
	Advanced English Communication	-	3	2
	Skills Lab			
	Total	24	6	28

#### IV YEAR I SEMESTER

Code	Subject	L	T/P/D	С
	Linux Programming	4	-	4
	Design Patterns	4	-	4
	Data Warehousing and Data Mining	4	-	4
	Cloud Computing	4	-	4
	ELECTIVE - I	4	-	4
	Software Project Management			
	Image processing and Pattern Recognition			
	Mobile Computing			
	Computer Graphics			
	Operations Research			
	ELECTIVE – II	4	-	4
	Machine Learning			
	Soft Computing			
	Information Retrieval Systems			
	Artificial Intelligence			
	Computer Forensics			
	Linux Programming Lab	-	3	2
	Data Warehousing and Mining Lab	-	3	2
	Total	24	6	28

#### IV YEAR II SEMESTER

Code	Subject	L	T/P/D	С
	Management Science	4	-	4
	ELECTIVE III	4	-	4
	Web Services			
	Semantic Web and Social Networks			
	Scripting Languages			
	Multimedia & Rich Internet Applications			
	ELECTIVE – IV	4	-	4
	Ad hoc and Sensor Networks			
	Storage Area Networks			
	Database Security			
	Embedded Systems			
	Industry Oriented Mini Project	-	-	2
	Seminar	-	6	2
	Project Work	-	15	10
	Comprehensive Viva	-	-	2
	Total	12	21	28

Note: All End Examinations (Theory and Practical) are of three hours duration. T-Tutorial L – Theory P – Practical/Drawing C – Credits

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## COURSE STRUCTURE FOR CSE DEPARTMENT

### M. TECH. COMPUTER SCIENCE ENGINEERING

#### (R13) COURSE STRUCTURE AND SYLLABUS

#### I Year I Semester

Code	Group	Subject	L	T/P/D	С
		Advanced Data Structures and Algorithms	3	0	3
		Computer System Design	3	0	3
		Advanced Operating Systems	3	0	3
		Distributed Systems	3	0	3
	Elective -I	ELECTIVE - I	3	0	3
		Software Process and Project			
		Management			
		Natural Language Processing			
		Pattern Recognition			
	Elective -II	ELECTIVE -II	3	0	- 3
		Machine Learning			
		Parallel and Distributed Algorithms			
		Software Architecture and Design Patterns			
	Lab	Advanced Data Structures and Algorithms	0	3	2
		Lab			
		Seminar	-	-	2
		Total	18	3	22

#### I Year II Semester

Code	Group	Subject	L	T/P/D	С
		Advanced Network Programming	3	0	3
		Advanced Databases	3	0	3
		Web Services and Service Oriented Archite	3	0	3
		Grid and Cloud Computing	3	0	3
	Elective -III	Advanced Data Mining	3	0	3
		Storage Area Networks			
		Database Security			
	Elective -IV	Semantic Web and Social Networks	3	0	3
		Wireless Networks and Mobile			
		Computing			
		Information Retrieval Systems			
	Lab	Web Services Lab	0	3	2
		Seminar	-	-	2
		Total	18	3	22

## II Year I Semester

Code	Group	Subject	L	T/P/D	С
		Comprehensive Viva	-	-	2
		Project Seminar	0	3	2
		Project Work	-	-	18
		Total	-	3	22

#### II Year II Semester

Code	Group	Subject	L	T/P/D	С
		Project Work and Seminar	-	-	22
		Total	-	-	22

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### COURSE STRUCTURE FOR CSE DEPARTMENT

#### M. TECH. (CYBER FORENSIC & INFORMATION SECURITY/CYBER SECURITY)

#### COURSE STRUCTURE AND SYLLABUS

### I Year I Semester

Code	Group	Subject	L	T/P/D	С
		Mathematical Foundation for Cyber Security	3	0	3
		Applied Cryptography	3	0	3
		Network and Wireless Security	3	0	3
		Biometric Systems and Biometric Image Processing	3	0	3
	Elective -I	Distributed and Cloud Computing Information Storage Management Information Systems Audit	3	0	3
	Elective -II	IT Security Metrics Web Security Distributed Systems	3	0	3
	Lab	Applied Cryptography Lab	0	3	2
		Seminar	-	-	2
		Total	18	3	22

#### I Year II Semester

Code	Group	Subject	L	T/P/D	С
		Software Vulnerability Analysis	3	0	3
		Intrusion Detection and Prevention Systems	3	0	3
		Cyber Crime Investigations and Digital Forensics	3	0	3
		Cyber Laws and Security Policies	3	0	3
	Elective -III	Information Theory and Coding Security Threats Digital Watermarking and Steganography	3	0	3
	Elective -IV	Network Programming Distributed Systems Security Intellectual Property Rights	3	0	3
	Lab	Ethical Hacking Lab	0	3	2
		Seminar	-	-	2
		Total	18	3	22

## Il Year I Semester

Code	Group	Subject	L	T/P/D	С
		Comprehensive Viva	-	-	2
		Project Seminar	0	3	2
		Project Work	-	-	18
		Total	-	3	22

## II Year II Semester

Code	Group	Subject	L	T/P/D	С
		Project Work and Seminar	-	-	22
		Total	-	-	22