

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)

M.Tech – Computer Science & Engineering
COURSE STRUCTURE-R19

I Year I Semester

Subject code	Category	Course Title	L	T	P	C
19D5CS1101	PC-1	Advanced Algorithms	4	0	0	4
19D5CS1102	PC-2	Computer Networking	4	0	0	4
19D5CS1103	PC-3	Software Engineering	4	0	0	4
19D5E11101 19D5E11102 19D5E11103 19D5E11104	PE-1	1. Network Security and Cryptography 2. Mobile Application Development 3. Graph Theory 4. Internet of Things	3	0	0	3
19D5E21101 19D5E21102 19D5E21103 19D5E21104	PE-2	1. Game Theory 2. Parallel and Distributed Algorithms 3. Software Architecture and Design Patterns 4. Embedded Systems	3	0	0	3
191EOE1101	OE-1	*Open Elective – 1	3	0	0	3
19D5LB1101	Laboratory I	Advanced Algorithms Lab	0	0	3	2
19D5SM1101	Seminar I	Seminar-I	0	0	3	2
		Total	21	0	6	25

I Year II Semester

Subject code	Category	Course Title	L	T	P	C
19D5CS1204	PC-4	Network Programming	4	0	0	4
19D5CS1205	PC-5	Distributed Systems and Cloud Computing	4	0	0	4
19D5CS1206	PC-6	Theory of Computation	4	0	0	4
19D5E31201 19D5E31202 19D5E31203 19D5E31204	PE-3	1. Data Warehousing and Data Mining 2. Storage Area Networks 3. Semantic Web and Social Networks 4. Cyber Security	3	0	0	3
19D5E41201 19D5E41202 19D5E41203 19D5E41204	PE4	1. Big Data Analytics 2. Soft Computing 3. Software Process and Project Management 4. Machine Learning	3	0	0	3
191EOE1201	OE-2	*Open Elective – 2	3	0	0	3
19D5LB1201	Laboratory II	Internet Technologies and Services Lab	0	0	3	2
19D5SM1201	Seminar II	Seminar –II	0	0	3	2
		Total	21	0	6	25

II Year I semester

Subject code	Course Title	L	T	P	C
19D5CS2107	Technical Paper Writing	0	3	0	2
19D5CV2101	Comprehensive Viva-Voce	0	0	0	4
19D5PW2101	Project work Review I	0	0	22	8
	Total	0	3	22	14

II Year II semester

Subject code	Course Title	L	T	P	C
19D5PW2202	Project work Review II	0	0	24	8
19D5PE2201	Project Evaluation (Viva-Voce)	0	0	0	16
	Total	0	0	24	24



Vidya Jyothi Institute of Technology (Autonomous)

(Accredited by NAAC & NBA, Approved By A.I.C.T.E., New Delhi, Permanently Affiliated to JNTU, Hyderabad)

(Aziz Nagar, C.B.Post, Hyderabad -500075)

M.Tech R15 Regulations

M.TECH - COMPUTER SCIENCE AND ENGINEERING (Course Structure)

I Year – I Semester

Subject Code	Category	Course Title	L	P	C
15D5CS1101	Core Course I	Data Structures and Algorithms	4	--	4
15D5CS1102	Core Course II	Database Internals	4	--	4
15D5CS1103	Core Course III	Distributed Systems	4	--	4
15D5E11101	Core Elective I	Network Security	4	--	4
15D5E11102		Android Application Development			
15D5E11103		Cloud Computing			
15D5E11104		Internet of Things			
15D5E21101	Core Elective II	Machine Learning	4	--	4
15D5E21102		Parallel and Distributed Algorithms			
15D5E21103		3. Software Architecture and Design Patterns			
15D5E21104		Embedded Systems			
15D5OE1101	Open Elective I	Android Application Development			
15D5OE1102		Big Data Analytics			
15D5OE1103		Bio Informatics			
15D5OE1104		Bio Metrics			
15D5OE1105		Linux Programming			
15D5OE1106		Intellectual Property Rights	4	--	4
15D5LB1101	Laboratory I	Data Structures and Algorithms Lab	--	4	2
15D5SM1101	Seminar I	Seminar	--	4	2
Total Credits			24	8	28

I Year – II Semester

Subject Code	Category	Course Title	L	P	C
15D5CS1204	Core Course IV	Network Programming	4	--	4
15D5CS1205	Core Course V	Information Retrieval Systems	4	--	4
15D5CS1206	Core Course VI	Internet Technologies and Services	4	--	4
15D5E31201	Core Elective III	Core Elective– 3	4	--	4
15D5E31202		1. Data Mining			
15D5E31203		2. Storage Area Networks			
15D5E31204		3. Semantic Web and Social Networks			
15D5E41201	Core Elective IV	Core Elective– 4	4	--	4
15D5E41202		1. Big Data Analytics			
15D5E41203		2. Soft Computing			
15D5E41204		3. Software Process and Project Management			
15D5OE1201	Open Elective II	E – COMMERCE	4	--	4
15D5LB1201	Laboratory II	Internet Technologies and Services Lab	--	4	2
15D5SM1201	Seminar II	Seminar	--	4	2
Total Credits			8	28	

**II Year - I
Semester**

Subject Code	Category	Course Title	L	P	C
15D5CV2101		Comprehensive Viva-Voce	--	--	4
15D5PW2101		Project work Review I	--	24	12
		Total Credits	--	24	16

II Year - II Semester

Subject Code	Category	Course Title	L	P	C
15D5PW2202		Project work Review II	--	8	4
15D5PE2201		Project Evaluation (Viva-Voce)	--	16	12
		Total Credits	--	24	16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.TECH - COMPUTER SCIENCE ENGINEERING

COURSE STRUCTURE AND SYLLABUS R13

I Year I Semester

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

I Year II Semester

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

II Year - I Semester

Code	Group	Subject	L	P	Credits
		Comprehensive Viva	-	-	2
		Project Seminar	0	3	2
		Project work	-	-	18
		Total Credits	-	3	22

II Year - II Semester

Code	Group	Subject	L	P	Credits
		Project work and Seminar	-	-	22
		Total Credits	-	-	22