



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA  
Kakinada-533003, Andhra Pradesh (India)

Comparison of Program Structure R16 with R19

Program Code	Program Name	Total No. of Courses		No of Subjects			Total Courses	Percentage %
		R16	R19	Added in (R19)	Deleted (R16)	Content revised more than 20%		
D22	M. Tech-IT	19	20	9	4	2	15	75%

Coordinator

**J.N.T. University Kakinada**  
Kakinada-533003

**REGISTRAR**

**HOD/Director**  
Head of the Department  
Dept. of Computer Science & Engg  
University College of Engineering  
JNT University, Kakinada - 533 003

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**

Kakinada-533003, Andhra Pradesh (India)

**Comparison of Course Structure R16 with R19**

**Program Code: D22**

**Program Name: M.Tech - Information Technology**

**Year : 1**

**Semester: 1**

R16					R19					Remarks				
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course ? (R19)	Deleted Course ? (R16)	Content Revision %
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	—	3	4	R19 MIT 115 1	<b>Program Core-1</b> Advanced Data Structures and Algorithms	3	0	0	3			25
2	ADVANCED GRAPH THEORY	4	—	3	4	R19 MIT 115 2	<b>Program Core-2</b> Full Stack Technologies	3	0	0	3	Yes		
3	PARALLEL ALGORITHMS	4	—	3	4	R19 MIT 115 3	<b>Program Elective-1</b> 1. Advanced Graph Theory 2. Machine Learning with Python 3. Big Data Analytics	3	0	0	3		Yes	
4	DATA MINING AND KNOWLEDGE DISCOVERY	4	—	3	4	R19 MIT1 154	<b>Program Elective-2</b> 1. Data Mining and Knowledge Discovery 2. Cryptography & Network Security 3. Object Oriented Software Engineering	3	0	0	3			30
5	ADVANCED COMPUTER NETWORKS	4	—	3	4	R19 MIT 115 5	<b>Research Methodology and IPR</b>			0	2	Yes		
6	WEB TECHNOLOGIES	4	-	3	4	R19 MIT	<b>Laboratory-1</b> Advanced Data Structures and	0	0	4	2	Yes	Yes	

					115 6	Algorithms Lab							
7	IT LAB 1	—	3	2	—	R19 MIT 115 7	<b>Laboartory-2</b> Full Stack Technologies Lab	0	0	4	2	Yes	
						R19 MIT1 158	<b>Audit Course-1</b> 1. English for Research Paper Writing 2. Disaster Management 3. Sanskrit for Technical Knowledge 4. Value Education	2	0	0	0	Yes	
<b>TOTAL</b>					<b>20</b>		<b>TOTAL</b>				18	5	2

Program Code: D22

Program Name: M.Tech - Information Technology

Year : 1

Semester: 2

R16					R19					Remarks				
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course ? (R19)	Deleted Course ? (R16)	Content Revision %
1	APPLIED CRYPTOGRAPHY	4		—	3	R19MIT1251	<b>Program Core-3</b> Data Science	3	0	0	3	Yes	Yes	
2	NETWORK PROGRAMMING	4		—	3	R19MIT1252	<b>Program Core-4</b> Advanced Network Protocols	3	0	0	3		Yes	
3	BIG DATA ANALYTICS	4		—	3	R19MIT1253	<b>Program Elective-3</b> 1. High Performance Computing 2. Ad Hoc & Sensor Networks 3. Web Analytics and Development	3	0	0	3			
4	SOFTWARE ENGINEERING	4		—	3	R19MIT1254	<b>Program Elective-4</b> 1. Cloud Computing 2. Internet of Things 3. GPU Computing	3	0	0	3			
5	<b>Elective – 1</b> MACHINE LEARNING WEB TECHNOLOGIES ARTIFICIAL INTELLIGENCE INTERNET OF THINGS	4		—	3	R19MIT1255	<b>Laboratory-3</b> Data Science Lab	0	0	4	2	Yes		
6	<b>Elective – 2</b> IMAGE PROCESSING PARALLEL ALGORITHMS CLOUD COMPUTING MOBILE COMPUTING	4		-	3	R19MIT1256	<b>Laboratory-4</b> Advanced Network Protocols Lab	0	0	4	2	Yes		
7	CSE LAB 2			3	2	R19MIT1257	<b>Mini Project with Seminar</b>	2	0	0	2			
						R19MIT1258	<b>Audit Course-2</b> 1. Constitution of India 2. Pedagogy Studies 3. Stress Management by Yoga	2	0	0	0	Yes		

						4. Personality Development through Life Enlightenment Skills							
<b>TOTAL</b>				<b>20</b>	<b>TOTAL</b>				<b>18</b>	<b>4</b>	<b>2</b>		

Program Code: D22

Program Name: M.Tech - Information Technology

Year : 2

Semester: 3

R16					R19					Remarks				
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %
1	COMPREHENSIVE VIVA	—		—	2	R19 MIT 235 1	<b>Program Elective-5</b> 1. Web of Things 2. Deep Learning 3. MOOCs-1 (NPTEL/SWAYAM)	3	0	0	3			
2	SEMINAR-I	—		—	2	R19 MIT2 352	<b>Open Elective</b> 1. MOOCs-2 (NPTEL/SWAYAM)-Any 12 Week Course on Engineering/ Management/ Mathematics offered by other than parent department 2. Course offered by other departments in the college	3	0	0	3			
3	THESIS WORK PART - I	—		—	16	R19 MIT 235 3	<b>Dissertation-I/ Industrial Project</b>	0	0	20	10			
<b>TOTAL</b>					20	<b>TOTAL</b>					16			

Program Code: D22

Program Name: M.Tech - Information Technology

Year : 2

Semester: 4

R16					R19					Remarks				
Course code	Course name	L	T	P	C	Course code	Course name	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %
1	Seminar – II				2	R19MIT2451	Dissertation-II	0	0	32	16			
2	Project Work Part – II				18									
<b>TOTAL</b>											16			