



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%		
D05	M. Tech – Computer Science and Engineering	19	20	8	3	2	13	65%

MS
Coordinator

Budeshi
REGISTRAR
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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%		
021D05	M.Tech – Computer Science and Engineering	19	20	8	3	2	13	65%

Coordinator

HOD



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

Comparison of Course Structure R16 with R19

Program Code: 021D05

Program Name: M.Tech - Computer Science and Engineering

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	4		—	3	R19MCS1151	Program Core-1 Mathematical Foundations of Computer Science	3	0	0	3	Yes		
2	COMPUTER NETWORKS	4		—	3	R19MCS1152	Program Core-2 Advanced Data Structures & Algorithms	3	0	0	3			15
3	ADVANCED UNIX PROGRAMMING	4		—	3	R19MCS1153	Program Elective-1 1. Big Data Analytics 2. Digital Image Processing 3. Advanced Operating Systems	3	0	0	3		Yes	
4	DATABASE MANAGEMENT SYSTEMS	4		—	3	R19MCS1154	Program Elective-2 1. Advanced Computer Networks 2. Internet of Things 3. Object Oriented Software Engineering	3	0	0	3		Yes	
5	ADVANCED OPERATING SYSTEMS	4		—	3	R19MCS1155	Research Methodology and IPR			0	2	Yes		
6	DATA WAREHOUSING AND DATA MINING	4		-	3	R19MCS1156	Laboratory-1 Advanced Data Structures & Algorithms Lab	0	0	4	2			15

7	CSE LAB 1	-	3	2	R19MCS1157	Laboartory-2 Advanced Computing Lab	0	0	4	2			30	
					R19MCS1158	Audit Course-1 1. English for Research Paper Writing 2. Disaster Management 3. Sanskrit for Technical Knowledge 4. Value Education	2	0	0	0	Yes			
TOTAL				20	TOTAL						18	3	2	

Program Code: 021D05

Program Name: M.Tech - Computer Science and Engineering

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	ADVANCED UNIX PROGRAMMING	4	—	3	4	R19M CS125 1	Program Core-3 Machine learning	3	0	0	3		Yes	
2	APPLIED CRYPTOGRAPHY	4	—	3	4	R19M CS125 2	Program Core-4 MEAN Stack Technologies	3	0	0	3	Yes	Yes	
3	BIG DATA ANALYTICS	4	—	3	4	R19M CS125 3	Program Elective-3 1. Advanced Databases and Mining 2. Ad Hoc & Sensor Networks 3. Soft Computing	3	0	0	3			15
4	CLOUD COMPUTING	4	—	3	4	R19M CS125 4	Program Elective-4 1. Cloud Computing 2. Principles of computer security 3. High Performance Computing	3	0	0	3			10
5	Elective – 1 ADHOC & SENSOR NETWORKS SEMANTIC WEBSERVICES PRINCIPLES OF PROGRAMMING LANGUAGES INTERNET OF THINGS	4	—	3	4	R19M CS125 5	Laboratory-3 Machine Learning with python lab	0	0	4	2			25
6	Elective - 2 MACHINE LEARNING INFORMATION RETRIEVAL SYSTEM IMAGE PROCESSING & PATTERN RECOGNITION SOFTWARE TESTING	4	- -	3	4	R19M CS125 6	Laboartory-4 MEAN Stack Technologies Lab	0	0	4	2	Yes		

	METHODOLOGIES													
7	IT LAB 2	—	3	2	—	R19M CS125 7	Mini Project with Seminar	2	0	0	2			
						R19M CS125 8	Audit Course-2 1. Constitution of India 2. Pedagogy Studies 3. Stress Management by Yoga 4. Personality Development through Life Enlightenment Skills	2	0	0	0	Yes		
TOTAL					20		TOTAL				18	3	2	

Program Code: 021D05

Program Name: M.Tech - Computer Science and Engineering

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	—	R19MCS2351	Program Elective-5 1. Deep Learning 2. Social Network Analysis 3. MOOCs-1 (NPTEL/SWAYAM)	3	0	0	3	Yes		
2	SEMINAR-I	—	—	2	—	R19MCS2352	Open Elective 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	Yes		
3	THESIS WORK PART - I	—	—	16	—	R19MCS2353	Dissertation-I/ Industrial Project	0	0	20	10			
TOTAL						TOTAL						16	2	

Program Code: 021D05

Program Name: M.Tech - Computer Science and Engineering

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	—	R19MCS2451	Dissertation-II	0	0	32	16		Yes	
2	THESIS WORK PART - II	—	—	18	—									
TOTAL					20	TOTAL					16		1	