

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Program Structure R17 with R19

D26					Code	Program
M. Tech – cyber security						Program Name
20				R17	Cor	Total
20				R19	Courses	Total No. of
<u>.</u>		(R19)	₹.	Added		
0			(R16)	Deleted		No of Subjects
1	20%	more than	revised	Content		jects
ū					Courses	Total
57					%	Percentage

Coordinator

HOD/Director

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

J.N.T. University Kakinada Kakinada-533003

REGISTRAR



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Course Structure R17 with R19

Program Code: D26 Program Name: M .Tech - cyber security Year: 1 Semester: 1

	R17						R19						Remarks				
Course code	Course name	L	T	P	С	Course code	Course name	L	Т	P	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %			
1	ADVANCED DATA STRUCTURES	4		_	3	R19MCY1151	Program Core-1 Principles of Cyber Security					Yes					
2	COMPUTER NETWORKS	4		_	3	R19 MCY 1152	Program Core-2 Applied Cryptography							15			
3	ADVANCED UNIX PPROGRAMMING	4		_	3	R19 MCY 1153	Program Elective-1 1. Operating Systems Administration and Security 2. Cyber Laws and Security Policies 3. Cloud and IoT Security						Yes				
4	DATABASE MANAGEMENT SYSTEMS	4			3	R19 MCY 1154	Program Elective-2 1. Wireless Networks Security 2. Cyber Space Operations and Design 3. Database and Web Applications Security						Yes				
5	ADVANCED OPERATING SYSTEMS	4		_	3	R19 MCY 1155	Research Methodology and IPR					Yes					
6	DATA WAREHOUSING AND DATA MINING	4		-	3	R19 MCY 1156	Laboratory-1 Cyber Security Lab							15			

7	CSE LAB 1	-	3	2	R19 MCY	Laboartory-2					30
					1157	Cryptography Lab					
8						Audit Course-1					
						1. English for Research					
						Paper Writing					
						2. Disaster Management					
						3. Sanskrit for Technical					
						Knowledge					
						Value					
						Education					
					R19 MCY	4.			Yes		
					1158						
	TOTAL			20		TOTAL		18	3	2	

Program Code: D26 Program Name: M. Tech - cyber security Year: 1 Semester: 2

	R17					R19						Remarks			
Cours e code	Course name	L	Т	P	С	Cours e code	Course name	L	Т	P	С	New Course ? (R19)	Delete d Course ? (R16)	Content Revision %	
1	ADVANCED UNIX PROGRAMMING	4	-	3	4	R19 MCY 1251	Program Core-3 Cyber Crime Investigation and Digital Forensics	3	0	0	3		Yes		
2	APPLIED CRYPTOGRAPHY	4	_	3	4	R19 MCY 1252	Program Core-4 Ethical Hacking	3	0	0	3	Yes	Yes		
3	BIG DATA ANALYTICS	4	_	3	4	R19 MCY 1253	 Program Elective-3 Software Vulnerability Analysis Malware Analysis and Reverse Engineering Application Threat Detection 	3	0	0	3			15	
4	CLOUD COMPUTING	4		3	4	R19 MCY 1254	Program Elective-4 1. Biometric Security 1. Web Security 1. 3. Firewall and VPN Security	3	0	0	3			10	
5	Elective – 1 ADHOC & SENSOR NETWORKS SEMANTIC WEBSERVICES PRINCIPLES OF PROGRAMMING LANGUAGES INTERNET OF THINGS	4	_	3	4	R19 MCY 1255	Laboratory-3 Cyber Crime Investigation and Digital Forensics Lab	0		4	2			25	
6	Elective - 2	4	-	3	4	R19	Laboartory-4	0	0	4	2	Yes			

	MACHINE LEARNING INFORMATION RETRIEVAL SYSTEM IMAGE PROCESSING & PATTERN RECOGNITION SOFTWARE TESTING METHODOLOGIES		-			MCY 1256	Ethical Hacking Lab							
7	IT LAB 2	_	3	2	_	R19 MCY 1257	Mini Project with Seminar	2	0	0	2			
						R19 MCY 1258	 Audit Course-2 Constitution of India Pedagogy Studies Stress Management by Yoga Personality Development through Life Enlightenment Skills 	2	0	0	0	Yes		
	TOTAL				20		TOTAL				18	3	2	

Program Code:

D26

Program Name: M.Tech - cyber security

Year : 2

Semester: 3

	R17					R19						Remarks			
Course code	Course name	L	Т	P	С	Course code	Course name	L	Т	P	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %	
1	COMPREHENSIVE VIVA	_	_	2	_	R19 MCY 2351	Program Elective-5 1. Cyber Security Governance 2. Principles of Secure Coding 3. Information System Audit 4. MOOCs-1 (NPTEL/SWAYAM)	3	0	0	3	Yes			
2	SEMINAR-I	_	_	2	_	R19 MCY 2352	Open Elective 1. MOOCs (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	_	R19 MCY 2353	Dissertation- I/Industrial Project	0	0	20	10				
	TOTAL				20		TOTAL				16	2			

Program Code: D26 Program Name: M. Tech - cyber security Year : 2 Semester: 4

	R17					R19						Remarks			
Course code	Course name	L	Т	Р	O	Course code	Course name	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %	
1	SEMINAR-II	_	_	2		R19 MCY 2451	Dissertation- II	0	0	32	16		Yes		
2	THESIS WORK PART -	_	_	18											
	TOTAL				20		TOTAL				16		1		