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%		
1D 36	M.Tech – Computers & Communications Engineering	19	20	08	01	03	12	60
1D	M.Tech – Instrumentation & Control Engineering	19	20	09	01	06	12	60

Coordinator

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

HOD

Program Code: 1D36   **Program Name:** M.Tech –C&CE   **Year : 1**   **Semester: 1**

R16					R19						Remarks		
Course code	Subjects	L	T	P	C	Course code	Course	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %
CC101	Digital System Design	4			3	CC101	Digital data communications	3	0	0	3			20
CC102	Advanced Computer Architecture	4			3	CC102	Digital system design	3	0	0	3			20
CC103	Wireless Communications and Networks	4			3	CC103	1. Advanced computer Architecture 2. Information theory and coding Techniques 3. Data base management systems 4.Big data analytics	3	0	0	3			20
CC104	Digital Data Communications	4			3	CC104	1.Wireless communications and networks 2.Internet protocols 3. Image and video processing 4. Object Oriented programming	3	0	0	3			20
CC105	**Elective I** I. Data Base Management	4			3	CC105	Research methodology	2	0	0	2	yes		

	Systems II. Information Theory and Coding Techniques III. Big Data Analytics					and IPR							
CC106	**Elective II** I. Internet Protocols II. Image & Video Processing III. Objective Oriented Programming	4			3	CC106	Digital data communications Lab	0	0	4	2		
CC107	System Design & Data Communications Lab			3	2	CC107	Digital system design Lab	0	0	4	2	yes	
						CC108	Audit course-1	2	0	0	0	yes	
Total					**20**		Total				18		

Program Code: 1D36   **Program Name:** M.Tech –C&CE   **Year : 1**   **Semester: 2**

R16						R19						Remarks		
Course code	Subjects	L	T	P	C	Course code	Subjects	L	T	P	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %
CC201	Advanced Operating Systems	4			3	CC201	Optical communications and networks	**3**	**0**	**0**	**3**			**30**
CC202	Advanced Computer Networks	4			3	CC202	Advanced Operating systems	**3**	**0**	**0**	**3**			**20**
CC203	Advanced Digital Signal Processing	4			3	CC203	1. Advanced digital signal processing 2. Soft computing	3	0	0	3			30

							techniques 3. Artificial Intelligence 4. Internet of Things							
CC204	Optical Communications and Networks	4			3	CC204	1.Advanced computer networks 2. Embedded system design 3. Radar signal processing 4. Network security and cryptography	3	0	0	3			30
CC205	**Elective III** I. EMI / EMC II. Internet of Things III. Soft Computing Techniques IV. Cyber Security	4			3	CC205	Advanced communications Lab	0	0	4	2			20
CC206	**Elective IV** I. Embedded System Design II. Radar Signal Processing III. Network Security & Cryptography	4			3	CC206	ERTOS Lab	0	0	4	2	yes		
CC207	Advanced Communications Lab			3	2	CC207	Mini Project with Seminar	0	0	4	2	yes		
						CC208	Audit Course – 2	2	0	0	0	yes		
	Total credits				**20**						**18**			
							Total **credits**							

R16					R19						Remarks		
Course code	Subjects	L	P	C	Course code	Subjects	L	T	P	C	New Course? (R19)	Deleted Course ? (R16)	Content Revision %
CC301	Comprehensive Viva-Voce	4		2	CC301	1. Data Acquisition systems 2. Wireless sensor networks 3. Cyber security systems 4.Wireless LANs and PANs 5. MOOCs-1 (NPTEL/SWAYAM)	3	0	0	3	yes		
CC302	Seminar – I	4		2	CC302	1. Business Analytics 2. Industrial Safety 3. Operations Research 4. Cost Management of Engineering Projects 5. Composite Materials 6. Waste to Energy	3	0	0	3	yes		

Code	Course	C		Credit	Code	Course	L	T	P	Credit			
						7. MOOCs-2 (NPTEL/SWAYAM)- Any 12 Week Course on Engineering/ Management/ Mathematics offered by other than parent department							
CC303	Project Work Part – I	4		16	CC303	Dissertation Phase -I /Industrial Project **(to be continued and evaluated next semester)**	0	0	20	10			
Total credits				**20**		**Total credits**				**16**			

R16					R19						Remarks		
Course Code	**Subjects**	**L**	**P**	**C**	**Course Code**	**Subjects**	**L**	**T**	**P**	**C**	**New Course? (R19)**	**Deleted Course? (R16)**	**Content Revision %**
CC401	Seminar – II			2	CC401	Project/ Dissertation Phase-II **(continued from III semester)**	0	0	32	16		yes	
CC402	Project Work Part - II			18									
	Total credits			**20**		**Total credits**				**16**			