

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Program Structure R16 with R19

	VI DOUT	1000			Code	Program	-
0	vi. i ech – High voltage engineering					Program Name	
ł	19			R16		Total No.	
10	NC			R19		of Courses	
c	α	(crul	(R10)	Added in			
F	4	(nTU)	10161	Deleted		No of Sub	
u	c	IIIOIE LIIdii 20%	1000 + 100/	Content revised		iects	
77	د د			Courses		Total	
60))))			%		Percentage	

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

Professor & Flead Dept, of Elec. & Electronics Engg-University College of Engg-J.N.T.University Kakinada KAKINADA-533 003. HOD

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Coordinator



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Course Structure R16 with R19

Program Name:M.Tech–High voltage engineering Year : 1 Semester:1

	R16		R19						Remarks					
Course	Course name	L	Т	Ρ	С	Course	Course name	L	Т	Ρ	С	New	Deleted	Content
code						code						Course?	Course?	Revision
												(R19)	(R16)	%
1	Generation and Measurement of	4			3	1	Generation and Measurement	3	0	0	3			10
	High Voltages						of High Voltages	Ū	Č	Č	-			
2	Dielectric and Insulation	4			3	2	Dielectrics and Insulation	з	0	0	3			10
	Engineering						Engineering	5	Ŭ	Ŭ	5			
3	HVDC Transmission	4			3	3	Program Elective – I							10
							i. Artificial Intelligence							
							Techniques	2	0	0	2			
							ii. HVDC Transmission		0	0	5			
							iii. Breakdown Phenomenon							
							in Electrical Insulation							
4	Power System Operation and	4			3	4	Program Elective – II							20
	Control						i. High Voltage Power							
							Apparatus							
							and Diagnostics	2	0	0	2			
							ii. Collision Phenomena in	5	0	0	5			
							Plasma Science							
							iii. Advanced Electro Magnetic							
							Fields							
5	Elective – I	4			3	5								
							Bosoarch Mathadalagy and IDB	2	0	0	2	Voc		
	i. Artificial Intelligence						Research Methodology and IPR	2	0	0	2	165		
	Techniques													

Program Code:1D08

	 ii. Advanced Digital Signal Processing iii. Smart Grid Technologies iv. Breakdown Phenomenon in Electrical Insulation 												
6	Elective – II i. High Voltage Power Apparatus & Diagnostics ii Collision Phenomena in Plasma Science iii. Advanced EM Fields	4		3	6	Simulation Laboratory – I	0	0	4	2			10
7	High Voltage Laboratory		4	2	7	High Voltage Laboratory	0	0	4	2			
						Audit Course – I	2	0	0	0	Yes		
	TOTAL			20		TOTAL	16	0	8	18	2	0	0

Program Code: 1D08

Program Name: M.Tech -High voltage engineering

Year:1

Semester: 2

R16							R19						Remarks			
Course code	Course name	L	Т	Ρ	С	Cours e code	Course name	L	Т	Ρ	С	New Course ? (R19)	Deleted Course? (R16)	Content Revisio n %		
1	High Voltage Testing Techniques	4	-		3	1	High Voltage Testing Techniques	3	0	0	3			15		
2	EHVAC Transmission	4	-		3	2	Surge Phenomenon & Insulation Coordination	3	0	0	3			20		
3	Surge Phenomenon & Insulation Coordination	4	-		3	3	Program Elective – III i. Partial Discharge in HV Equipment ii. Gas Insulated Systems and Substations iii. Pulse Power Engineering	3	0	0	3			10		
4	Advanced Power System Protection	4	-		3	4	Program Elective – IV i. Flexible AC Transmission Systems ii. EHVAC Transmission iii. Smart Grid Technologies	3	0	0	3			33		
5	Elective – III i. Partial Discharge in HV Equipment ii. Gas Insulated Systems and Substations iii. Pulse Power Engineering	4	-		3	5	Simulation Laboratory – II	0	0	4	2	yes		25		
6	Elective – IV i. Flexible AC Transmission Systems ii.Power System Deregulation iii.Reactive Power compensation & Management	4	-		3	6	Power Systems Laboratory	0	0	4	2	Yes				
7	Simulation Laboratory		-	4	2	7	Mini Project with Seminar	0	0	4	2	Yes				
						8	Audit Course – II	2	0	0	0	Yes				

TOTAL				20	TOTAL	14	0	12	18	4	0	2
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Program Code:1D08

Program Name: M.Tech --High voltage engineering

Year : 2 Semester: 3

	R16		R19							Remarks				
Course	Course name	L	Т	Ρ	С	Course	Course name	L	Т	Ρ	С	New	Deleted	Content
code						code						Course?	Course?	Revision
												(R19)	(R16)	%
1	Comprehensive Viva-Voce				2	1	Program Elective – V	3	0	0	3	Yes		
2	Seminar – I				2	2	Open Elective	3	0	0	3	Yes		
3	Project Work - I				16	3	Dissertation Phase - I / Industrial Project (to be continued and evaluated next semester)	0	0	20	10			
	TOTAL				20		TOTAL	6	0	20	16	2	0	0

Program Code: 1D08

Program Name: M.Tech High voltage engineering

Year: 2 Semester: 4

	R16		R19							Remarks				
Course code	Course name	L	т	Р	C	Course code	Course name	L	т	Р	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %
1	Seminar – II				2	Dissertation	Project/ Dissertation Phase-II (continued from III semester)	0	0	32	16		Yes	
2	Project Work - II				18									
	TOTAL						TOTAL			32	16	0	1	0