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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Program Structure R18 with R19

Program Name Total No. R18		R18 R19	Total No. of Courses R18 R19 Added in (R19) (R19)	Total No. of CoursesNo of SubR18R19Added inDeleted(R19)(R18)	Total No. of CoursesNo of SubjR18R19Added inDeleted(R19)(R19)(R18)
R18	Total No. of Courses R18 R19		Added in (R19)	No of Sub Added in Deleted (R19) (R18)	No of SubjectsTotalAdded inDeletedContent revisedCourses(R19)(R18)more than 20%
	of Courses R19		Added in (R19)	Added in Deleted (R19) (R18)	No of SubjectsTotalAdded inDeletedContent revisedCourses(R19)(R18)more than 20%Courses

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

Coordinator NS

Cel

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

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Course Structure R18 with R19

Program Code: 1D52

Program Name:M.Tech -Power electronics & drives

Year:1 Semester:1

R19 **R18** Remarks С Course Course name Т Ρ С Course Course name Т Ρ New Deleted Content L L Course? Course? code code Revision (R19) (R16) % **Electrical Machine Modeling and** 4 **Electrical Machine Modeling and** 1 --3 1 10 3 0 0 3 Analysis Analysis Analysis of Power Electronic 4 2 Analysis of Power Electronic 2 3 10 ---3 0 0 3 Converters Converters Power Electronic Control of 3 4 3 3 Elective – I 33 --**Electrical Drives-I** i. Modern Control Theory ii. Power Quality and Custom 3 0 0 3 iii. Power Devices Programmable Logic Controllers & Applications **Power Quality** Elective – II 20 4 3 4 4 --Artificial Intelligence i. Techniques Renewable Energy 3 0 3 ii. 0 Technologies HVDC Transmission and iii. Flexible AC Transmission Systems 5 Elective – I 4 3 5 ---Yes 0 Research Methodology and IPR 2 2 0 i. Modern Control Theory

	ii. Custom Power Devices iii. OptimizationTechniques													
6	Elective – II i. Energy Auditing, Conservation and Management ii Artificial Intelligence Techniques iii. HVDC Transmission	4			3	6	Power Electronics Simulation Laboratory	0	0	4	2			10
7	Simulation Laboratory		-	4	2	7	Power Converters Laboratory	0	0	4	2	Yes		
						Audit –1	Audit Course – 1	2	0	0	0	Yes		
	TOTAL				20		TOTAL				18	3	0	1

Program Code: 1D52

Program Name: M.Tech :Power electronics & drives

Year : 1 Semester: 2

	R18						R19					Remarks				
Course code	Course name	L	Т	Р	C	Course code	Course name	L	Т	Р	C	New Course? (R19)	Deleted Course? (R16)	Content Revision %		
1	Switched Mode Power Conversion	4			3	1	Switched Mode Power Conversion	3	0	0	3			15		
2	Power Electronic Control of Electrical Drives-II	4			3	2	Power Electronic Control of Electrical Drives	3	0	0	3			20		
3	Microcontrollers and its Applications to Power Electronic Systems	4			3	3	Elective – III i. Energy Auditing, Conservation and Management ii.Hybrid Electric Vehicles Advanced Digital Control Systems	3	0	0	3			33		
4	Flexible AC Transmission Systems	4			3	4	Elective – IV i.Advanced Digital Signal Processing ii.Evolutionary Algorithms and Applications Microcontrollers	3	0	0	3			33		
5	Elective – III i. Renewable Energy Systems ii. Hybrid and Electric Vehicles iii. Industrial applications of Power Electronic Systems	4			3	5	Electric Drives Simulation Laboratory	0		4	2			10		
6	Elective – IV i. Smart Grid Technologies ii. Advanced Digital Signal Processing iii. Programmable Logic Controllers & Applications	4			3	6	Electric Drives Laboratory	0	0	4	2	Yes				
7	Power Converters & Drives Laboratory			4	2	7	Mini Project with Seminar	0	0	4	2	Yes				

			Audit Course – 2		2	0	0	0	Yes		
TOTAL		20		TOTAL				18	3	0	2

Program Code: 1D52

Year: 2 Semester: 3

	R18						R19							Remarks			
Course code	Course name	L	Т	Ρ	С	Course code	Course name	L	Т	Ρ	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %			
1	Comprehensive Viva-Voce				2	1	Program Elective - 5	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 (to be continued and evaluated next semester)	0	0	20	10						
	TOTAL				20		TOTAL				16	2	0	0			

Program Code: 1D52 Program Name: M.Tecl

Program Name: M.Tech -Power electronics & drives Year : 2

Semester: 4

	R16							Remarks						
Course code	Course name	L	Т	Р	C	Course code	Course name	L	Т	Ρ	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %
1	Seminar – II				2	1	Dissertation Phase - II (continued from III semester				16		Yes	
2	Project Work - II				18									
	TOTAL				20		TOTAL				16	0	1	0