

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Program Structure R16 with R19

			T			1	
Program	Code		33				
Program Name			M.Tech – Remote Sensing				
Total No.	R16		19		*		
Total No. of Courses	R19		20				
	Added in	(R19)	8	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			
No of Subjects	Deleted	(R16)	1				
jects	tent revised	more than 20%	З				
Total	Courses		12				
Total Percentage	%		60%				

Coordinator

REGISTRAR

J.N.T. University Kakinada Kakinada-533003

Chairman, Board of Studies



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Course Structure R16 with R19

Program Code: 33 Program Name:M.Tech - Remote Sensing Year: 1 Semester: 1

	R16			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	Principles of Photogrammetry	4			3	Core-1	Remote Sensing	3			3	, ,		10
2	Principles of Remote Sensing	4			3	Core-2	Geographical Information Systems	3			3			10
3	Principles of Geographical Information Systems	4			3	Elective- 1	a) Photogrammetry b) Earth Systems c) Water Resources Management	3			3			30
4	Earth Systems	4			3	Elective- 2	a) Object Oriented programmingb) Principles of Geodatabasec) Geo-Statistical Methods	3			3			20
5	Object Oriented programming through JAVA	4			3	Core	Research Methodology and IPR	2			2	Yes		
6	Elective-1 1. Data Base Management Systems 2. Principles of Geo-data base 3. Web Technologies	4			3	Lab-1	Remote Sensing Laboratory			4	2			10
7	Map Analysis & Photogrammetry Lab & Satellite Image Interpretation Lab			2	2	Lab-2	Geographical Information Systems Laboratory			4	2	Yes		
						Audit –1	Audit Course –1	2			0	Yes		
	TOTAL				20		TOTAL				18	3		1

Semester: 2

R16							R19						Remarks			
Course code	Course name	L	Т	Р	С	Course code	Course name	L	T	P	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %		
1	Digital Image Processing	4			3	Core-3	RS & GIS Applications in Earth Sciences	3			3	, ,		15		
2	Advanced Remote Sensing	4			3	Core-4	Satellite Image Processing	3			3			20		
3	Internet GIS	4			3	Elective-	a) Global Navigational SatelliteSystemb) Geospatial Data Processingand Modelingc) Climate Systems	3			3			30		
4	R.S. & GIS Applications In Earth Sciences	4			3	Elective- 4	a) Advanced Remote Sensing b) Web & Mobile GIS c) Geo-Spatial applications for Coastal Zone Management	3			3			30		
5	Geodesy & GNSS	4			3	Lab-3	Satellite Image Processing Laboratory	2			2			10		
6	Elective-II 1. Remote Sensing & GIS for Disaster Management 2. Data Warehousing & Data Mining 3) Advanced surveying and cartography 4) Advanced Photogrammetry 5) Geo-statistical Methods	4			3	Lab-4	GeoSpatial Simulation Laboratory			4	2	Yes				
7	Digital Image Processing Lab & GIS & GPS Lab			2	2	Core	Mini Project with Seminar			4	2	Yes				
						Audit – 2	Audit Course-2	2			0	Yes				
	TOTAL				20		TOTAL				18	3		2		

Semester: 3

R16						R19						Remarks				
Course code	Course name	L	Т	Р	С	Course code	Course name	L	T	P	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %		
1	Comprehensive Viva-Voce				2	Elective-V	a) MOOCS b) Soft Computing Techniques c) Environmental Impact Assessment and Management using RS & GIS d) Urban & Regional Planning using Geospatial technologies				3	Yes				
2	Seminar – I				2	Open Elective	a) MOOCS b) Fundamentals of Remote Sensing & GIS c) Application of Remote Sensing in Environmental Management d) Internet of Things e) Business Analytics f) Industrial Safety g) Operations Research h) Cost Management of Engineering Projects i) Composite Materials j) Waste to Energy				3	Yes				
3	Project Work Part – I				16	Dissertation	Dissertation Phase-I /Industrial Project (To be continued and Evaluated next Semester)*				10					
	TOTAL				20		TOTAL				16	2				

Program Code: 33 Program Name: M.Tech - Remote Sensing Year: 2 Semester: 4

	R16	R19						Remarks						
Course code	Course name	L	T	P	С	Course code	Course name	L	T	P	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %
1	Seminar – II				2	Dissertation	Dissertation Phase II (Continued from III semester)				16		Yes	
2	Project Work Part – II				18									
	TOTAL				20		TOTAL				16		1	

Coordinator Chairman, Board of Studies