

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA Kakinada-533003, Andhra Pradesh (India)

Comparison of Course Structure R16 with R19

021D20	Program Code	
021D20 M.Tech – Structural Engineering	Program Name	
32	R16	Total No. of Courses
35	R19	of Courses
6	Added in (R19)	
3	Deleted (R16)	No of Subjects
0	Content revised more than 20%	jects
9	Total Courses	
26	Percentage	5

Coordinator

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

HOD

PROFESSOR & HEAD
Department of Civil Engineering
University College of Engineering
JNTUK, KAKINADA-533 003



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003, Andhra Pradesh (India)

Comparison of Course Structure R16 with R19

Program Code: 021D20 Program Name: M.Tech – Structural Engineering Year: 1 Semester: 1

		R16				R19					Remarks					
Course code	Category	Course Name	L	т	P	С	Course code	Category	Course name	L	т	Р	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %
MSEI-1	CORE	Advanced Mathematics	3	1	-	3	MSEI-2	Core	Structural Dynamics	3	0	-	3			0
MSEI-2	CORE	Theory of Elasticity	3	1	-	3	MSEI-1		Theory of Elasticity	3	0	-	3			0
MSEI-3	CORE	Matrix Analysis of Structures	3	1	-	3										
MSEI-4	Core	Structural Dynamics	3	1	-	3	MSEI-3	Elective-I	Matrix Analysis ofStructure							0
MSEI-5	Elective-I	a) Experimental Stress Analysis	4	-	-	3		Elective-I	b) Experimental Stress Analysis	3	0	-	3			0

MSEI-6	Elective-I	c) Sub Structure Design						Elective-I	c) Sub Structure Design							0
MSEI-7	Elective-I	d) Structural Optimization	-					Elective-I	d) Structural Optimization							0
MSEI-8	Elective-I	Port and Harbour Structures						Elective-	a) Bridge Engineering						yes	0
MSEI-9	Elective-	a) Repair and Rehabilitation of Structures					MSEI-4	Elective-	b) Repair and Rehabilitation of Structures							0
MSEI-10	Elective-	b) Analysis and Design of Tall Buildings	4	_		3		Elective-	b) Analysis and Design of Tall Buildings	3	0	-	3			0
MSEI-11	Elective-	d) Advanced Reinforced Concrete Design	7			3		Elective-	d)Advanced Reinforced Concrete Design							0
MSEI-12	Elective-	c) Plastic Analysis and Design	-				MSEMC		Research Methodology and IPR	2	0	0	2	Yes		
MSEP-1	Lab-2	Advanced Structural Engineering Laboratory	-	-	3	2	MSEPI- 2	Lab-2	Advanced Structural Engineering Laboratory	-	-	4	2			
							MSEPI- 1	Lab-1	Advance Concrete	-	-	4	2			

								Laboratory							
						MSEA-1	Audit course-1	Audit course -1	2	0	0	0	Yes		
Total Cred	Total Credits				20	Total Cre	dits					18			

Comparison of Course Structure R16 with R19

Program Code: 021D20 Program Name: M.Tech – Structural Engineering Year: 1 Semester: 2

		R16						Remarks								
Course code	Category	Course Name	L	т	Р	С	Course code	Category	Course name	L	т	P	С	New Course? (R19)	Deleted Course? (R16)	Content Revision %
MSEII-1	CORE	Finite Element method	3	1	-	3	MSEII-1	Core	Finite Element Method	3	0	-	3			0
MSEII-2	CORE	Earthquake Resistant Design	3	1	-	3	MSEII-2	core	Earthquake Resistant Design	3	0	-	3			0
MSEII-4	Core	Theory of plates& shells	4		-	3										
MSEII-3	CORE	Stability of Structures	3	1	-	3		Elective-III	a)Stability of Structures							0
MSEII-5		a) Prestressed concrete						Elective-III	b)Mechanics of composite materials							0
MSEII-6	Elective-	b) Mechanics of composite materials					MSEII-3	Elective-III	c)Fracture Mechanics							0
MSEII-7	III	c) Fracture Mechanics	4	-	-	3		Elective-III	d)Analysis of Offshore structures							0
MSEII-8		d)Analysis of Offshore													yes	

		structures													
MSEII-9		a) Industrial Structures							b) Precast& Pre- fabricated Structures					Yes	
MSEII-10	Elective-	b) Bridge Engineering	4	-		3	MSEII-4	Elective-IV	a)Theory of plates& shells	3	0	_	3		0
MSEII-11	IV	c) Earth Retaining Structures							c)Earth Retaining structures						0
MSEII-12		d) Inelastic Design of slabs							d) Inelastic Design of slabs						0
MSEMCP- 2		CAD Laboratory	-	-	4	2	MSEMC		CAD Laboratory	-	-	4	2		0
							MSEPII- 1	Lab-1	Structural Design Laboratory	-	-	4	2		0
							MSEPII- 2	Lab-2	Mini Project with seminar	0	0	4	2	Yes	
							MSEA-2	Audit Course-2	Audit course-2	2	0	0	0	Yes	
Total Credi	ts					20	Total Cred	dits					18		

Comparison of Course Structure R16 with R19

Program Code: 021D20 Program Name: M.Tech – Structural Engineering Year: 2 Semester: 3

		R16							Remarks							
Course code	Category	Course Name	L	т	Р	С	Course code	Category	Course name	L	Т	Р	С	New Course? (R19)	Deleted Course (R16)	Content Revision %
MSES-1	CORE	Seminar			-	2		Elective-	a)Plastic Analysis & Design							0
MSED-1	CORE	Design Project			-	2	MSEIII-1	V	b) Prestressed Concrete	3	0	-	3			0
MSEPR- 1	CORE	Dissertation /Thesis			-	16			c)Industrial Structures							0
							MSEIII-2	Open Elective	Open Elective MOOCS	3	0	-	3	Yes		
							Dissertation	Core	Dissertation Phase- 1/Industrial Project(To be continued and evaluated next semester)				16			0
Total Cred	dits				-	20	Total Credits	<u>'</u>				-	16			

Comparison of Course Structure R16 with R19

Program Code: 021D20 Program Name: M.Tech – Structural Engineering Year: 2 Semester: 4

		R16							R19					Remarks			
Course code	Category	Course Name	L	т	Р	С	Course code	Category	Course name	L	т	P	С	New Course? (R19)	Deleted course (R16)	Content Revision %	
MSES-2	CORE	Seminar			-	2	Dissertation	CORE	Project/Dissertation Phase-II(continued from III semester)			32	16		Yes	0	
MSED- 2	CORE	Design Project				2										0	
MSEPR- 2	CORE	Dissertation/Thesis				16										0	
Total cre	dits					20	Total credits	<u>'</u>					16				