University of Engineering & Management, Jaipur

Syllabus to be implemented from the Academic Year 2016-17
M.Tech_Structural Engineering
First Year First Semester

Sr. No:	Paper Code	Paper Name	ClassHours			Credit
		Theory	L	T	P	Cr.Pt.
1	SCE101	**Advanced Engineering Mathematics**	3	1	0	4
2	SCE102	**Industrial Management**	4	0	0	4
3	SCE103	**Advanced Structural Analysis**	4	0	0	4
4	SCE104	**Soil Structure Interaction**	4	0	0	4
5	SCE105	**Elective I** **A) Bridge Engineering** **B) Structural Optimization** **C) Repair & Rehabilitation of Structures**	4	0	0	4
		Total	19	1	0	**20**
		Practical				
6	SCE191	**Structural Laboratory I**	0	0	3	2
7	SCE 192	**CAD LAB**	0	0	3	2
8	SCE181	**Seminar I**	0	2	0	1
		Total	0	2	6	**5**

First Year Second Semester

Sr. No:	Paper Code	Paper Name	Class Hours			Credit
		Theory	L	T	P	
1	SCE201	**Advanced Structural Design**	4	0	0	4
2	SCE202	**Structural Dynamics & Earthquake Engineering**	4	0	0	4
3	SCE203	**Theory of Elasticity & Plasticity**	4	0	0	4
4	SCE204	**Elective–II** **A)Advanced Foundation Engineering** **B) Prestressed Concrete Structures** **C)Composite Materials & Structures**	4	0	0	4
5	SCE205	**Elective–II** **A)Environmental Impact Assessment** **B) Advanced Concrete Technology** **C) Construction Technology & Management** **D)Theory of Elastic Stability & Behavior of Metal Structures**	4	0	0	4
		Total	20	0	0	**20**
		Practical				
6	SCE281	**Seminar-Term Paper Leading To Project**	0	2	0	1
7	SCE292	**Structural Lab-II**	0	0	3	**2**
		Total		2	3	**3**

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Second Year Third Semester

Sr. No:	Paper Code	Paper Name	Class Hours			Credit
		Theory	L	T	P	
1	SCE301	**Teaching Research Methodologies**	0	0	0	4
2	SCE381	**Dissertation I /Project Viva**	0	0	18	12
		Total	0	0	24	**16**

Second Year Fourth Semester

Sr. No:	Paper Code	Paper Name	Class Hours			Credit
		Project	L	T	P	
1	SCE481	**Dissertation II/Project Viva**	0	0	24	24
		Total	0	0	24	**20**