Course Structure and Syllabus

For

2 Year M. Tech Programme

In Structural Engineering

w. e. f 2019-20

Department of Civil Engineering

Aliah University

II A/ 27, Newtown, Kolkata 700156,

West Bengal, India

ALIAH UNIVERSITY
Curriculum for M. Tech in Civil Engineering Department

1st YEAR 1st SEMESTER

S. No.	Course code	Name of the course	Periods per week				Credit
			L	T	P	T	
1	CE 601	Numerical Analysis	3	1	0	4	4
2	CE 603	Advanced Structural Analysis (FEM)	3	1	0	4	4
3	CE 605	Structural Dynamics & Earthquake Engineering	3	1	0	4	4
4	CE 607	Elective-I	3	1	0	4	4
5	CE 609	Elective-II	3	1	0	4	4
TOTAL PERIOD PER WEEK							**20**
TOTAL CREDIT							**20**

1st YEAR 2nd SEMESTER

Sl no	Paper code	Name of the paper	Periods per week				Credit
			L	T	P	T	
1	CE 602	Theory of Elasticity & Plasticity	3	1	0	4	4
2	CE 604	Earthquake Resistant Design of Structures	3	1	0	4	4
3	CE 606	Elective-III	3	1	0	4	4
4	CE 608	Elective-IV	3	1	0	4	4
5	CE 671	Seminar			2	2	2
6	CE 681	Structure Lab			3	3	2
TOTAL PERIOD PER WEEK							**21**
TOTAL CREDIT							**20**

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2nd YEAR 3rd SEMESTER

Sl no	Paper code	Name of the paper	Periods per week				Credit
			L	T	P	T	
1	CE 691	Dissertation Part-I	-	-	-	-	12
2	CE 693	Viva-voce-I	-	-	-	-	2
TOTAL CREDIT							**14**

2nd YEAR 4TH SEMESTER

Sl no	Paper code	Name of the paper	Periods per week				Credit
			L	T	P	T	
1	CE 692	Dissertation Part-II	-	-	-	-	12
2	CE 694	Viva-voce-II	-	-	-	-	4
TOTAL CREDIT							**16**

List of Elective Subjects

Elective-I

1. Soil Structure Interaction
2. Advanced Foundation Design
3. Earthquake Geotechnical Engineering

Elective-II

1 Prestressed Concrete
2 Advanced Structural Design
3 Design of Tall Buildings
4 Stability of Structures

Elective-III

1. Bridge Engineering
2. Composite Materials and Structures
3. Advanced Concrete Technology
4. Theory of Plates & Shells

Elective-IV

1. Optimization of Structures
2. Reliability Analysis of Structures
3. Structural Health Monitoring & Rehabilitation of Structures
4. Advanced Construction Techniques