



ALIAH UNIVERSITY
Curriculum for M. Tech in Civil Engineering Department

Course Structure and Syllabus

For

2 Year M. Tech Programme

In Geotechnical Engineering

w. e. f 2019-20

Department of Civil Engineering

Aliah University

II A/ 27, Newtown, Kolkata 700156,

West Bengal, India

Jafar Siddiqui

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W. K. Ram
8.3.2019

M. K. Das
08/03/19

Sunil
08/03/19
Mohsin Jami
8/3/19

Rishi Kumar
08/03/19

08/3



ALIAH UNIVERSITY

Curriculum for M. Tech in Civil Engineering Department

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

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ALIAH UNIVERSITY

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List of Electives:

Elective:-I

1. Soil Structure Interaction
2. Analytical Geo mechanics
3. Reinforced Soil Structures
4. Seismic Design of Foundation

Elective:-II

1. Slope Stability and Earthen Dam
2. Retaining Structures and Underground Construction
3. Geotechnics for Highway Engineering
4. Application of FEM in Geotechnical Engineering

Elective:-III

1. Subsoil Investigation and Instrumentation
2. Design of Foundation in Expansive soil
3. Application of Smart Material in Geotechnical Engineering
4. Coastal and Offshore Geotechnology

Elective:-IV

1. Ground Improvement Techniques
2. Environmental Geo Technique
3. Rock Mechanics and Tunnelling
4. Uncertainty Analysis in Geotechnical Engineering

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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 611	Advanced Theory of Soil Mechanics	3	1	0	4	4
3	CE 613	Advanced Foundation Design	3	1	0	4	4
4	CE 615 (EI-I)	Elective-I	3	1	0	4	4
5	CE 617 (EI-II)	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 612	Soil Dynamics and Machine Foundations	3	1	0	4	4
2	CE 614	Geotechnical Earthquake Engineering	3	1	0	4	4
3	CE 616 (EI-III)	Elective-III	3	1	0	4	4
4	CE 618 (EI-IV)	Elective-IV	3	1	0	4	4
5	CE 671	Seminar			2	2	2
6	CE 681	Soil Mechanics Lab			3	3	2
TOTAL PERIOD PER WEEK							21
TOTAL CREDIT							20

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Mohsin Javed
3/3/19