

Faculty of Civil Engineering
M.E. Structural Engineering
REGULATIONS 2021 Semester: I

Course Code: ST4161

Course Title: Advanced Construction Engineering and Experimental Techniques Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1	Ultrasonic flaw detector	1
2	Four probe apparatus	1
3	Ultrasonic interferometer	1
4	Sodium vapour lamp	1
5	Co-ordination microscope with Longitudinal and transverse movement	2
6	Ammeter	1
7	Voltmeter	1
8	Screw gauge	2
9	Vernier caliper	2
10	Electroscope	1
11	Spectroscopy	1
12	Proving Ring	1
13	LVDT	1
14	High frequency generator	1
15	Concrete Compression Testing Machine	1
16	L box apparatus	1
17	J Box apparatus	1

18	V funnel apparatus	1
19	Slump Cone	2
20	Core cutter	1
21	Ultrasonic Pulse Velocity	1
22	Rebound Hammer	1
23	Concrete Permeability Test Apparatus	1

Degree: PG		Name of the Course: M. E. STRUCTURAL ENGINEERING	
Course Code: ST4211		Course Title: NUMERICAL AND FINITE ELEMENT ANALYSIS LAB	
		Semester: II	
Sl. No.	Description of Equipment/Software	Required numbers (for 25 Students)	
1.	Matlab/Simulink or similar softwares	25 license	
2.	ANSYS/ABAQUS or similar FEA softwares	25 license	
3.	Computer	25 nos	

Degree: PG		Name of the Course: M. E. STRUCTURAL ENGINEERING	
Course Code: ST4212		Course Title: STRUCTURAL DESIGN STUDIO	
		Semester: II	
Sl. No.	Description of Equipment	Required numbers	
1.	STAAD/ETABS	25 license	
2.	Computers	25 nos	
3.	Autocad	25 use license	