



**DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE & TECHNOLOGY, MURTHAL,
SONEPAT, HARYANA-131039**

**APPARATUS / SOFTWARES FOR M. TECH. 2 YEARS IN STRUCTURAL ENGINEERING
Credit Based Scheme w.e.f. 2013-14**

	INFRASTRUCTURE	REQUIRED	AVAILABLE	DEFICIENCY
List of Labs / Equipments / Softwares				
S. No.	Name of Equipments / Softwares	Quantity		
1st Year Lab: TE Lab, HM Lab, RS and A Lab				
1st Year (Semester-I)				
Name of the Lab: CES-511B Advanced Concrete Technology Lab				
1.	100 KN compression Testing machine (Automatic, electrically operated, computerized) IS Certified.	1		
2.	Muffle furnace with digital controller cum indicator with safety alarm for cement tests size 125 x 125 x 125 mm. Max. Tem. 1200 ^o C	1		
3.	Auto clave (electronics / digital IS Certified)	1		
4.	Vibrations machine for cement testing IS Certified	1		
5.	Mortar mixer (electrical driven and mechanical for cement test IS Certified	1		
6.	Humidity Chamber cabinet +5 ^o C . 60 ^o C, 95 % humidity (electronic IS Certified for cement test)	1		
7.	Analytical Balance and Physical Balance	1		
8.	Balance (electronics)150 gm.	1		
9.	Humidifier IS Certified	1		
10.	Water distillation plant / apparatus	1		
11.	Cubes molds	1		
12.	Lechetlier apparatus (with copper bath IS Certified)	1		
13.	Blaine's permeability apparatus (IS Certified)	1		
14.	Vicat Needle apparatus (IS Certified)	1		
15.	Blow Lamp	1		
16.	Glass-china wares, chemicals and tools	1		
18	Aggregate Testing			
19	Mechanical Sieve Shaker with timer alongwith sieve Set mounted IS Certified	1		
20	Measures for Bulk density (IS Certified)	1		
21	Soundness test apparatus per IS-9373 (V)	1		
22	Specific gravity test apparatus with Pycnometer (Set of 6)	1		
23	Universal Testing Machine 2000 KN capacity (electronic and computerized) fully automatic including flexural strength and steel testing facilities IS Certified	1		
25	100 KN flexural strength testing machine electrically operated	1		
26	Pan type concrete mixer capacity 40 ltr.	1		
27	Electrically operated			
28	Vibrating table for 150 mm. cube moulds IS Certified	1		
29	Bleeding apparatus for concrete IS Certified	1		
30	Needle vibrator (petrol driven) IS Certified	1		
31	Air entrainment meter 5 ltr. Capacity IS Certified	1		
32	Cube moulds 15 x 15 x 15 cm.	1		
33	Concrete Thermometer (digital)	1		
34	Slump test apparatus complete with temping rod IS Certified	1		
35	Compaction factor Apparatus IS Certified	1		
36	Bulk density measure set for concrete IS certified	1		

37	Vibrating hammer for vibrating dry mix at zero slump for dry lean concrete	1		
CES 508 CAD in Structural Engineering				
1	20PC			
2.	Software STAAD Pro			
3.	Software ANSYS			
4.	Software SAP			
CES 607 Seminar				
1.	Seminar Hall with LCD Projector for 25 sitting capacity			

Certified by the Director / Principal