

LESSON PLAN

Name of Faculty : Sahil Bangar
 Subject : Plumbing Service
 Lesson plan : 15 weeks

Discipline : Civil Engg
 Semester : 1st

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Week	Lecture Day	THEORY	Delivery Date of Lecture		Whether the Lesson Plan
		TOPIC			Yes / No
		(including Assignments / Seeminar / Group Discussion / Sessional Tests)	Expected	Actual	
1st	1	Introduction to the subject			
	2	1. Plumber's Tools Selection, use and care of tools required for plumbing work, such as threading die, bit brace, ratchet brace,			
2nd	1	Pipe wrench, spanner set, pipe cutter, pipe vice, hacksaw, chisel, files			
	2	Other common hand tools, bench drilling machine, soldering iron			
3rd	1	2. Pipes and Pipe Fitting Selection and use of different pipes like GI Pipes, Plastic pipes,			
	2	PVC pipes, HDPE pipes, Cast iron pipes,			
4th	1	Plumbing symbols; Bends, Elbows, Sockets, Tees, Unions, Pipe cutting, Pipe bending,			
	2	Pipe Threading, Pipe joints, Pipe fitting, Alignment of pipes, Branching of pipes, Safety precautions.			
5th	1	3. Water Supply System Sources of water; Rainwater harvesting; Water supply systems in a town;			
	2	Water distribution systems; Distribution reservoirs;			
6th	1	Pumps; Valves; Fire hydrants; Storage of water in buildings;			
	2	Types of tanks; Laying water supply pipe lines			
7th	1	Assignment – 1 / Group discussion / Technical Quiz / Seminar			
	2	Sessional Test - 1			
8th	1	4. Domestic Drainage Drainage system (two pipe, one pipe, single stack and other systems), Trap			
	2	Cesspool, Sceptic tank, Cleaning blocked pipes and drains, Laying sanitary and sewer pipes, Manholes			
9th	1	Inspection and testing (pressure & leakage test, testing straightness of pipes, ball test etc.);			
	2	Fixing accessories, Problems in drainage and their solution			

10th	1	Assignment – 2 / Group discussion / Technical Quiz / Seminar			
	2	Sessional Test - 2			
11th	1	5. Sanitary Appliances Flush toilet, Squat toilet, Wash basin, Sink			
	2	Floor traps, Urinal, Bathtub, Shower, Bidet, Mixing tap, Popup waste			
12th	1	Heating System Heat transfer, Water heater, Geyser, Domestic hot water supply system			
	2	Central heating, Solar water heater			
13th	1	Revision			
	2	Revision			
14th	1	Assignment – 3 / Group discussion / Technical Quiz / Seminar			
	2	Revision			
15th	1	Sessional Test - 3			
	2	Revision			