

LESSON PLAN

NAME OF FACULTY: MANJU BALA
SUBJECT: PLUMBING SERVICES
BRANCH & SEMESTER: CIVIL ENGG. (1st sem)
WORK LOAD: 2 LECTURE
LESSON PLAN DURATION: 15 WEEKS

WEEK	THEORY		SIGN
	Lecture day	Topics	
1 st	1 st	Introduction to plumbing services	
	2 nd	Plumber's Tools Selection, use and care of tools required for plumbing work	
2 nd	1 st	Use and care of threading die, bit brace, ratchet brace, pipe wrench, spanner set, pipe cutter, pipe vice	
	2 nd	Use and care of hacksaw, chisel, files and other common hand tools, bench drilling machine, soldering iron	
3 rd	1 st	Revision, class test assignment	
	2 nd	Pipes and Pipe Fitting Selection and use of different pipes like GI Pipes, Plastic pipes, PVC pipes, HDPE pipes, Cast iron pipes	
4 th	1 st	Plumbing symbols; Bends, Elbows, Sockets, Tees, Unions, Pipe cutting, Pipe bending	
	2 nd	Pipe Threading, Pipe joints, Pipe fitting, Alignment of pipes, Branching of pipes, Safety precautions.	
5 th	1 st	Revision, class test assignment	
	2 nd	Water Supply System Sources of water; Rainwater harvesting;	
6 th	1 st	Water supply systems in a town; Water distribution systems	
	2 nd	Distribution reservoirs; Pumps; Valves; Fire hydrants	
7 th	1 st	Storage of water in buildings; Types of tanks; Laying water supply pipe lines	
	2 nd	Domestic Drainage Drainage system (two pipe, one pipe, single stack and other systems	
8 th	1 st	Trap, Cesspool, Septic tank,	
	2 nd	Cleaning blocked pipes and drains	
9 th	1 st	Laying sanitary and sewer pipes, Manholes	
	2 nd	Inspection and testing (pressure & leakage test)	
10 th	1 st	Testing straightness of pipes, ball test	
	2 nd	Fixing accessories, Problems in drainage and their solution	
11 th	1 st	Revision, class test assignment	
	2 nd	Sanitary Appliances Flush toilet, Squat toilet	
12 th	1 st	Wash basin, Sink, Floor traps	
	2 nd	Urinal, Bathtub, Shower, Bidet	

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13 th	1 st	Mixing tap, Pop up waste Heating System Heat transfer, Water heater, Geyser	
	2 nd	Domestic hot water supply system	
14 th	1 st	Central heating, Solar water heater	
	2 nd	Revision, class test assignment	
15 th	1 st	Revision, class test assignment	
	2 nd	Revision	