

LESSON PLAN

Name of faculty:- Mr. Parveen Beniwal
 Discipline:- Civil
 Subject:- Plumbing service
 lesson plan duration :- 15 weeks(Jan2020 to april 2020)

WEEK	THEORY		PRACTICAL	
	LECTURE DAY	Topic (Including Assignment/test)	PRACTICAL DAY	Topic
1 st week	1 st day	Selection, use and care of tools required for plumbing work	1 st day	Carry out simple job requiring cutting mild steel plate, filing, drilling and tapping holes etc.
	2 nd day	, such as threading die, bit brace, ratchet brace, pipe wrench,		
2 nd week	1 st day	spanner set, pipe cutter, pipe vice, hacksaw,	1 st day	Carry out simple job requiring cutting mild steel plate, filing, drilling and tapping holes etc.
	2 nd day	chisel, files and other common hand tools, bench drilling machine, soldering iron		
3 rd week	1 st day	1. Pipes and Pipe Fitting (6 Periods) Selection and use of different pipes like GI Pipes, Plastic pipes,	1 st day	Practice cutting, threading and bending of metal pipes; cutting and shaping of PVC pipes
	2 nd day	PVC pipes, HDPE pipes, Cast iron pipes,		
4 th week	1 st day	Plumbing symbols; Bends, Elbows, Sockets, Tees, Unions, Pipe cutting,	1 st day	Practice cutting, threading and bending of metal pipes; cutting and shaping of PVC pipes
	2 nd day	Pipe bending, Pipe Threading, Pipe joints, Pipe fitting, Alignment of pipes, Branching of pipes,		

5 th week	1 st day	Safety precautions 2. Water Supply System Sources of water	1 st day	Carry out simple pipe connections requiring use of bends, tees, elbows etc.
	2 nd day	; Rainwater harvesting; Water supply systems in a town;		
6 th week	1 st day	Water distribution systems; Distribution reservoirs	1 st day	Carry out simple pipe connections requiring use of bends, tees, elbows etc.
	2 nd day	; Pumps; Valves; Fire hydrants; Storage of water in buildings;		
7 th week	1 st day	Types of tanks; Laying water supply pipe lines	1 st day	Erect simple water supply system
	2 nd day	Domestic Drainage Drainage system (two pipe, one pipe, single stack		
8 th week	1 st day	and other systems), Trap, Cesspool,	1 st day	Erect simple water supply system
	2 nd day	Sceptic tank, Cleaning blocked pipes and		
9 th week	1 st day	drains, Laying sanitary and sewer pipes, Manholes,	1 st day	Test drainage lines by using different testing methods
	2 nd day	Inspection and testing (pressure & leakage test,		
10 th week	1 st day	testing straightness of pipes, ball test etc.); Fixing	1 st day	Test drainage lines by using different

				testing methods
	2 nd day	accessories, Problems in drainage and their solution		
11 th week	1 st day	Sanitary Appliances introduction Flush toilet, Squat toilet,	1 st day	Practice fixing of different valves Install sanitary fittings like washbasin, Sink, Floor traps, Urinal, Bathtub and heating appliance like geyser
	2 nd day	Wash basin, Sink,		
12 th week	1 st day	Floor traps, Urinal, Bathtub, Shower,	1 st day	Practice fixing of different valves Install sanitary fittings like washbasin, Sink, Floor traps, Urinal, Bathtub and heating appliance like geyser
	2 nd day	Bidet, Mixing tap, Pop up waste		
13 th week	1 st day	Heating System introduction	1 st day	Viva question
	2 nd day	Heat transfer,		
14 th week	1 st day	Water heater,	1 st day	Viva question
	2 nd day	Geyser, Domestic hot water supply system,		
15 th week	1 st day	Central heating, Solar water heater		Viva question
	2 nd day	<i>revision</i>		

