

GOVERNMENT POLYTECHNIC MEHAM

Name of faculty:- Parveen Beniwal

Discipline:- Civil

Subject:- Plumbing service

lesson plan duration :- 15 weeks(Sept 2020 to Dec 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,		
	3 rd day	ratchet brace, pipe wrench,	2 nd day	Carry out simple job requiring cutting mild steel plate, filing, drilling and tapping holes etc.
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,		
	3 rd day	bench drilling machine, soldering iron	2 nd day	Practice cutting, threading and bending of metal pipes; cutting and shaping of PVC pipes
3 rd week	1 st day	Pipes and Pipe Fitting 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,		
	3 rd day	HDPE pipes, Cast iron pipes,	2 nd day	revision of previous experiment
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,		

	3 rd day	Alignment of pipes, Branching of pipes, Safety precautions	2 nd day	revision of previous experiment
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5 th week	1 st day	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;		
	3 rd day	Water supply systems in a town;	2 nd day	Viva-voice question
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;;		
	3 rd day	Storage of water in buildings	2 nd day	Erect simple water supply system
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		
	3 rd day	pipe, single stack	2 nd day	Viva-voice question
8 th week	1 st day	and other systems), Trap, Cesspool,	1 st day	Revision of previous experiment
	2 nd day	Sceptic tank, Cleaning blocked		
	3 rd day	pipes and its use	2 nd day	Viva-voice question
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		
	3 rd day	leakage test,	2 nd day	Viva-voice question
10 th week	1 st day	testing straightness of pipes, ball test etc.);	1 st day	Test drainage lines by using different testing method

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

