

Govt. Polytechnic Lahaul And spiti at Udaipur, Camp at Sundernagar, Mandi (H.P)

LESSON PLAN 1st SEMESTER (CIVIL ENGG.)

	DATE	WEEK	ACTIVITIES	REMARKS
August, 2026	12,14	2nd week	Poster making	
	19,21	3rd week	Cultural activities	
	26	4th week	Sports Activities	
	23,29	4th week	Story telling	
September,2026	2	1st week	Painting Practice	
	9,11	2nd week	Quiz Competition	
	16,18	3rd week	Poetry Writing	
	23,25	4th week	Campus Cleanliness	
	30	5th week	Cultural activities	
October,2026	7,9	2nd week	Sports Activities	
	14,16	3rd week	Hobby class	
	21,23	4th week	Essay Writing	
	28,30	5th week	Quiz Competition	
November,2026	4,6	1st week	Cultural activities	
	13	2nd week	Declamation	
	18,20	3rd week	Rangoli competition	
	25,27	4th week	Community Service	

[Signature]

Signature of Teacher

[Signature]

Signature of H.O.D

(Ramesh Jaiswal)

**Government Polytechnic Lahaul &Spiti at Udaipur Camp at Sundernagar Distt
Mandi (H.P) -175018**

Department of Applied Sciences and Humanities

Lesson Plan for Engineering Workshops-II

Branch : Civil Engineering

Semester-1st

Session: Aug. to Nov. 2026

Name of Instructor : Sh. Dinesh Kumar

Name of Workshop : Welding

S.No.	Contents	Group-I	Group-2	Group-3
1	Safety Precautions of concerned shop and use of personal protective equipment (PPE), demonstration of tools, equipment, sample jobs, Best practices in the concerned shop.	11/8	26/8	19/8
2	Introduction and importance of welding process as compared to other material joining processes. Specifications and type of Arc welding machines, parts identification, classification, selection and coding of electrodes, welding parameters, welding joints and welding positions. Common weldable materials, safety precautions in welding shop, use of Personal Protective Equipment, Use of welding screens, Hazards and remedies during welding, Elementary symbolic representations, demo of tools, equipment, sample jobs prepared, set up of Gas welding apparatus, and welding defects.	12/8	29/8	22/8
3	Job I : Practice of striking arc and depositing uniform and straight beads on flat at different current levels. (Minimum 4 beads on M.S. flat at four setting of current level using shielded metal arc welding and differentiating their characteristics).	18/8	1/9	25/8
4	Job II : Cut a job with abrasive cut off / chop saw machine and make a lap joint using shielded metal arc welding (SMAW) process.	2, 5/9	19, 22/9	9, 15/9
5	Job III : Edge Preparation and welding butt joint using shielded metal arc / gas welding process.	8, 26/9	23/9, 13/10	16/9, 3/10
6	Job IV : Edge Preparation and welding T Joint using shielded metal arc welding (50mm x 50mm x 6 mm x 100 mm M.S. Flat).	29, 30/9	14, 17/10	06, 7/10
7	Job V : Cut a round pipe with abrasive cut off / chop saw machine & prepare T-pipe joint using gas/arc welding.	21, 24/10	18, 21/11	28/10 31/10
8	Job VI : Prepare a job on Spot Welding.	27/10, 28/11	25/11	17/11


W/S Instructor


Foreman Instructor


W/S Supdt.

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Department of Applied Sciences and Humanities

Lesson Plan for Engineering Workshops-II

Branch : Civil Engineering

Semester-1st

Session: Aug. to Nov. 2026

Name of Instructor : Sh. Dhani Ram

Name of Workshop : Sheet Metal

S.No.	Contents	Group-I	Group-2	Group-3
1	Safety Precautions of concerned shop and use of personal protective equipment (PPE), demonstration of tools, equipment, sample jobs, best practices in the concerned shop.	19/8	11/8	26/8
2	Demonstration of various power tools, apparatus, equipment, hand tools used in sheet metal shop.	22/8	12/8	29/8
3	Job I : Prepare a rectangular job 100*70mm involving different sheet metal operations like measuring, marking, snipping practice and filing etc. (at least 6 cuts of 70mm).	25/8	18/8	1/9
4	Job II : Prepare a seam joint by using hand tools on GI sheet.	19, 15/9	2, 5/9	19, 22/9
5	Job III : Prepare double riveted lap joint (zig-zag type) on GI sheet.	16/9, 3/10	8, 26/9	23/9, 13/10
6	Job IV : Prepare a single cover single riveted butt joint (chain type) on GI sheet.	6, 7/10	29, 30/9	14, 17/10
7	Job V : Fabricate a funnel of GI sheet using operations of shearing, flattening, and bending.	28, 31/10	21, 24/10	18, 21/11
8	Job VI : Perform any one of sheet metal operation on swaging machine on Job-V like beading/swaging/crimping etc.	17/11	27/10 28/11	25/11

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Department of Civil Engineering

Lesson Plan for Engineering Workshops-II

Branch : Civil Engineering

Semester-1st

Session: Aug. to Nov. 2026

Name of Instructor : Sh. Rajesh Kumar

Name of Workshop : Plumbing

S.No.	Contents	Group-I	Group-2	Group-3
1	Demonstration and Study of Plumbing Tools: Identification and use of tools such as pipe wrench, pipe cutter, die, hacksaw, hammer, spanner etc.	25/8	19/8	11/8
2	Demonstration and Study of Pipes, Pipe Fittings and valves, Identification of GI, PVC, PPR and HDPE pipes, Study of fittings such as elbows, tees, reducers, sockets, unions and bends etc.	29/8	22/8	12/8
3	Pipe Cutting and Threading, Cutting of GI pipes, Threading of pipes.	1/9	25/8	18/8
4	Pipe Jointing: Preparation of threaded pipe joints, Joining pipes using sockets, unions and couplings.	19, 22/9	16/9	8/9
5	Demonstration of Water Supply Fixtures and Sanitary Fixtures: Taps and valves, Wash basin, sink, water closet and flushing system.	23/9	16/9	8/9
6	Demonstration of Traps: P-trap, S-trap, floor trap, gully trap and intercepting trap.	13/10	3/10	26/9
7	Layout of cold and hot water supply for a bathroom: Assembling and Disassembling of GI/PVC pipes as per given layout for a bathroom.	14/10	6/10	29, 30/9
8	Demonstration of house drainage system (by Model)	17/10	7/10, 28/10	21/10
9	Demonstration of Septic Tank along with soak pit for 10 users	18, 21/11	31/10	24/10
10	Repair and Maintenance: Leakage detection, replacement of washers and minor plumbing repairs.	25/11	17/11	27/10, 28/11


Signature of Instructor
(Sh. Rajesh Kumar)


Signature of H.O.D
(Dr. Lalit Goel)