

WORKSHOP PRACTICE - II
LESSON PLAN

ADVANCE WELDING SHOP

Name of Faculty : Sh. Hariom, F/I				
Discipline : Mech. Engg.				
Semester : III				
Subject : Workshop Practice II				
Work Load : Practicals 09 Period/ week				
Week	Lecture day	Theory	Practical Day	Practicals
		Assignments		Topic
1			1	Introduction & Safety Precaution in Adv. Welding Shop Preparing gas welding joint in vertical position joining M.S. Plates
			2	Exercise on gas cutting of mild steel plate with oxy-acetylene gas torch.
			3	Exercise on gas welding of cast iron and brass part or component.
2			1	Exercise on preparation of T Joint by arc welding
			2	Exercise on spot welding/seam welding
			3	Exercise on MIG and TIG welding

PATTERN MAKING SHOP

Name of Faculty : Sh. Satish Kumar, W/I				
Discipline : Mech. Engg.				
Semester : III				
Subject : Workshop Practice II				
Work Load : Practicals 09 Period/ week				
Week	Lecture day	Theory	Practical Day	Practicals
		Assignments		Topic
1			1	Introduction & Safety Precaution in Pattern Making Shop. Explain briefly about different types of pattern.
			2	Preparation of solid/single piece pattern.
			3	Preparation of two piece/split pattern
2			1	Preparation of a pattern on wooden lathe
			2	Preparation of a self cored pattern
			3	Preparation of a core box

FOUNDARY SHOP

Name of Faculty : Sh. Virender Singh, W/I				
--	--	--	--	--

Discipline : Mech. Engg.				
Semester : III				
Subject : Workshop Practice II				
Work Load : Practicals 09 Period/ week				
Week	Lecture day	Theory Assignment	Practical Day	Practicals Topic
1			1	Preparation of mould with solid pattern on floor. Preparation of floor mould of solid pattern using cope
			2	Preparation of floor mould of split pattern in cope and drag of moulding box
			3	Moulding and casting of a solid pattern of aluminum
2			1	Preparing a mould of step pulley and also preparing core for the same
			2	A visit to cast iron foundry should be arranged to have first hand knowledge of cast iron melting pouring and casting.
			3	Testing of moisture contents and strength of moulding sand

All Students of III Sem Mech Engg divides into Three Groups Namely Advance Welding Shop, Pattern Making

MANUFACTURING TECHNOLOGY-I LESSON PLAN

FITTING SHOP				
Name of Faculty : Sh. Virender Rathi, W/I				
Discipline : Automobile Engg.				
Semester : III				
Subject : Manufacturing Technology-I				
Work Load : Practicals 04 Period/ week				
Week	Lecture day	Theory Assignments	Practical Day	Practicals Topic
1			1	Bench work and fittings; simple male-female fitting (fitting of pulley, bearings, gears on shafts)
2			1	scraping, pipe fittings with leak proof joints, checking alignment and centre distance.

PATTERN MAKING SHOP & FOUNDRY SHOP				
Name of Faculty : Sh. Virender Singh, W/I				
Discipline : Automobile Engg.				
Semester : III				
Subject : MANUFACTURING TECHNOLOGY- I				
Work Load : Practicals 04 Period/ week				

Week	Lecture day	Theory Assignments	Practical Day	Practicals Topic
1			1	To prepare pattern of rectangular block, 'V' block, step pulley with core box, split
2			1	Preparation of open floor mould of solid pattern, cope drag mould using split pattern. Visit to foundry to see castings of cast iron, steel, non-ferrous materials, hand moulding, machine moulding and melting furnaces. Induction heating and gas fired furnaces

TURNING SHOP

Name of Faculty : Sh. D.S MOR, F/I				
Discipline : Automobile Engg.				
Semester : III				
Subject : Workshop Practice II				
Work Load : Practicals 04 Period/ week				
Week	Lecture day	Theory Assignment	Practical Day	Practicals Topic
1			1	Introduction to turning machine and allied services like cutting tool grinding, general shop layout including maintenance, oils, tools and gauge stores.
2			1	Different exercises in turning like plain turning, step-turning, facing, chamfering, knurling, parting off and thread cutting, use of compound slide and tailstock, tool grinding, selection of coolant and lubricants and speed and feeds. Use of safety goggles.

All Students of III Sem Automobile Engg divides into Three Groups Namely Fitting Shop, Pattern Making Shop &

