

## Lesson Plan

Name of Faculty : Imran Khan  
 Discipline : Workshop (Mech)  
 Semester : 3rd  
 Subject : Welding Workshop  
 Lesson Plan Duration : 15 Weeks (From Aug.2020 to Nov 2020)

Week	Theory	Practical	Week	Theory
1 <sup>st</sup>			1	Job 1. Preparing gas welding joint in vertical/Horizontal position joining M.S. Plate
			2	Job 2. Exercise on gas cutting of mild steel plate with oxy-acetylene gas torch.
2 <sup>nd</sup>			1	Job 1. Preparing gas welding joint in vertical/Horizontal position joining M.S. Plate
			2	Job 2. Exercise on gas cutting of mild steel plate with oxy-acetylene gas torch.
3 <sup>rd</sup>			1	Job 1. Preparing gas welding joint in vertical/Horizontal position joining M.S. Plate
			2	Job 2. Exercise on gas cutting of mild steel plate with oxy-acetylene gas torch.
4 <sup>th</sup>			1	Job 1. Preparing gas welding joint in vertical/Horizontal position joining M.S. Plate
			2	Job 2. Exercise on gas cutting of mild steel plate with oxy-acetylene gas torch.
5 <sup>th</sup>			1	Job 3. Exercise on gas welding of cast iron and brass part or component.
			2	Job 4. Exercise on preparation of T Joint by arc welding (200 mm x 6 mm Flats)
6 <sup>th</sup>			1	Job 3. Exercise on gas welding of cast iron and brass part or component.
			2	Job 4. Exercise on preparation of T Joint by arc welding (200 mm x 6 mm Flats)
7 <sup>th</sup>			1	Job 3. Exercise on gas welding of cast iron and brass part or component.
			2	Job 4. Exercise on preparation of T Joint by

				arc welding (200 mm x 6 mm Flats)
8 <sup>th</sup>			1	Job 3. Exercise on gas welding of cast iron and brass part or component.
			2	Job 4. Exercise on preparation of T Joint by arc welding (200 mm x 6 mm Flats)
9 <sup>th</sup>			1	Job 5. Exercise on spot welding/seam welding (any utility item)
			2	Job 6. Exercise on MIG and TIG welding
10 <sup>th</sup>			1	Job 5. Exercise on spot welding/seam welding (any utility item)
			2	Job 6. Exercise on MIG and TIG welding
11 <sup>th</sup>			1	Job 5. Exercise on spot welding/seam welding (any utility item)
			2	Job 6. Exercise on MIG and TIG welding
12 <sup>th</sup>			1	Job 5. Exercise on spot welding/seam welding (any utility item)
			2	Job 6. Exercise on MIG and TIG welding
13 <sup>th</sup>			1	Job 7 Exercise on arc welding pipe joint MS.
			2	Repair of an iron furniture in institute
14 <sup>th</sup>			1	Job 7 Exercise on arc welding pipe joint MS.
			2	Repair of an iron furniture in institute
15 <sup>th</sup>			1	Job 7 Exercise on arc welding pipe joint MS.
			2	Repair of an iron furniture in institute

## Lesson Plan

Name of Faculty : Surender Kumar  
 Discipline : Workshop (Mech)  
 Semester : 3rd  
 Subject : Pattern Making  
 Lesson Plan Duration : 15 Weeks (From Aug. 2020 to Nov 2020)

Week	Theory	Practical	Week	Theory
1 <sup>st</sup>			1	Job 1. Preparation of solid/single piece pattern.
			2	Job Continued
2 <sup>nd</sup>			1	Job 1. Preparation of solid/single piece pattern.
			2	Job Continued
3 <sup>rd</sup>			1	Job 1. Preparation of solid/single piece pattern.
			2	Job Continued
4 <sup>th</sup>			1	Job 1. Preparation of solid/single piece pattern.
			2	Job Continued
5 <sup>th</sup>			1	Job 2. Preparation of two piece/split pattern
			2	Job 3. Preparation of a pattern on wooden lathe
6 <sup>th</sup>			1	Job 2. Preparation of two piece/split pattern
			2	Job 3. Preparation of a pattern on wooden lathe
7 <sup>th</sup>			1	Job 2. Preparation of two piece/split pattern
			2	Job 3. Preparation of a pattern on wooden lathe
8 <sup>th</sup>			1	Job 2. Preparation of two piece/split pattern
			2	Job 3. Preparation of a pattern on wooden lathe
9 <sup>th</sup>			1	Job 4. Preparation of a self cored pattern
			2	Job Continued
10 <sup>th</sup>			1	Job 4. Preparation of a self cored pattern
			2	Job Continued
11 <sup>th</sup>			1	Job 4. Preparation of a self cored pattern
			2	Job Continued
12 <sup>th</sup>			1	Job 4. Preparation of a self cored pattern
			2	Job Continued
13 <sup>th</sup>			1	Job 5. Preparation of a core box.
			2	Job 5. Preparation of a core box.
14 <sup>th</sup>			1	Job 5. Preparation of a core box.
			2	Job 5. Preparation of a core box.
15 <sup>th</sup>			1	Job 5. Preparation of a core box.
			2	Job 5. Preparation of a core box.

## Lesson Plan

Name of Faculty : Sandeep Karwasra  
 Discipline : Workshop (Mech)  
 Semester : 3rd  
 Subject : Foundry Shop  
 Lesson Plan Duration : 15 Weeks (From Aug.2020 to Nov 2020)

Week	Theory	Practical	Week	Theory
1 <sup>st</sup>			1	Job 1. Preparation of mould with solid pattern on floor.
			2	Job 2. Preparation of floor mould of solid pattern using cope.
2 <sup>nd</sup>			1	Job 1. Preparation of mould with solid pattern on floor.
			2	Job 2. Preparation of floor mould of solid pattern using cope.
3 <sup>rd</sup>			1	Job 1. Preparation of mould with solid pattern on floor.
			2	Job 2. Preparation of floor mould of solid pattern using cope.
4 <sup>th</sup>			1	Job 1. Preparation of mould with solid pattern on floor.
			2	Job 2. Preparation of floor mould of solid pattern using cope.
5 <sup>th</sup>			1	Job 3. Preparation of floor mould of split pattern in cope and drag of moulding box.
			2	Job Continued
6 <sup>th</sup>			1	Job 3. Preparation of floor mould of split pattern in cope and drag of moulding box.
			2	Job Continued
7 <sup>th</sup>			1	Job 3. Preparation of floor mould of split pattern in cope and drag of moulding box.
			2	Job Continued
8 <sup>th</sup>			1	Job 3. Preparation of floor mould of split pattern in cope and drag of moulding box.
			2	Job Continued
9 <sup>th</sup>			1	Job 4. Moulding and casting of a solid pattern of aluminum
			2	Job 5. Preparing a mould of step pulley and also preparing core for the same.
10 <sup>th</sup>			1	Job 4. Moulding and casting of a solid pattern of aluminum
			2	Job 5. Preparing a mould of step pulley and also preparing core for the same.
11 <sup>th</sup>			1	Job 4. Moulding and casting of a solid pattern of aluminum
			2	Job 5. Preparing a mould of step pulley and also preparing core for the same.
12 <sup>th</sup>			1	Job 4. Moulding and casting of a solid pattern of aluminum
			2	Job 5. Preparing a mould of step pulley and also preparing core for the same.

13th			1	Testing of moisture contents and strength of moulding sand.
			2	Testing of moisture contents and strength of moulding sand.
14th			1	Testing of moisture contents and strength of moulding sand.
			2	Testing of moisture contents and strength of moulding sand.
15th			1	A visit to cast iron foundry should be arranged to have first hand knowledge of cast iron melting pouring and casting.
			2	A visit to cast iron foundry should be arranged to have first hand knowledge of cast iron melting pouring and casting.