

Metal Joining Technology

Brief Introduction: This course is drafted for B.E/B.Tech 1st Year candidates to develop their skills in welding Technologies. This course will provide the trainees with the necessary Knowledge & Skills required by B.Tech graduates to become competent Welding Engineer as per the need of manufacturing and fabrication industries.

Audience: 1st Year B.Tech Students

Duration: - Theory and Practice :- 2 weeks

Project :- 2 weeks

Intake(per batch) :20 Students

Maximum Capacity : 2 Batches;60 Students

Contents:

S. No.	Contents	Topics Covered	Theory (Hrs)	Practical (Hrs)	
1	Introduction	Introduction to Welding Processes	2	0	
		Evaluation & Selection of welding Processes			
2	Safety	Use Safety Equipment's in welding	1	2	
3	Simulation	Practice on Virtual welding Machines		2	
4	Power Source	Types of Welding Power Source	1	0	
		Effect of Welding parameter on Bead Profile.		3	
5	Consumables	Types of electrodes	2	2	
		Electrode Coatings & AWS designation		2	
		Storage& handling		0	2
		Effect of Shielding gases in welding			
6	SMAW	Introduction to SMAW	1		
		SMAW Bead on Plate & Joints		5	
7	GMAW	Introduction to GMAW	1		
		GMAW Bead on Plate & Joints		5	
8	GTAW	Introduction to GTAW	1		
		GTAW Bead on Plate & Joints		4	
9	Defects	Defects in welding & Remedies	2	1	
10	Cutting & Brazing	Introduction to Oxy-fuel Cutting	1	1	
		Brazing		1	
11	Project	Joining Technology	0	2 Weeks	
Total			12	28+2Weeks	

Mentor:

- Prof. Som Ashutosh
- Mr. Vivek Singh
- Mr. Abhishek Gupta
- Mr. Amit Kumar Singh

Venue:

- AWTRC, Skill Development Center

Course Co-ordinator

