



Gyanmanjari Institute of Technology (GMIT)

Mechanical Engineering Department

SDP Course Content

Name of Course : Welding Technology



Course Objective:

- To learn about various welding technology like arc welding, TIG welding, MIG welding, submerged arc welding.
- To know about various parameters in welding technology.
- To understand various positions of welding.
- To understand various defects in welding technology.

Syllabus

Sr.No.	Contents	Hrs.
1.	Importance of various welding technology	2
2.	Information about various positions of welding	2
3.	Job preparation by arc welding	2
4.	Job preparation by arc welding	2
5.	Job preparation by TIG welding	2
6.	Job preparation by TIG welding	2
7.	Job preparation by MIG welding	2
8.	Job preparation by MIG welding	2
9.	Job preparation by submerged arc welding	2
10.	Job preparation by submerged arc welding	2
Total Hrs.		20

Coordinator details and timing:

Course Duration	20 Hrs.
Course Coordinator	
Batch Size	20
Course Fee	NIL
Targeted Audience	Fifth sem mechanical students from Manufacturing domain

Resource requirement:

Infrastructure requirement	Workshop and welding booth
Hardware / Software	NIL
Consumable	M.S. Plate, welding rod, gas welding cylinder, flux, personal protective instruments
Special Equipment	Arc welding set, TIG, MIG, submerged arc welding set.

Assessment criteria

Sr. No.	Criteria	Marks
1	Test (MCQ + Numerical)	50
2	Practical Exam	50
Passing criteria: More than 50% marks in all component		

Course Outcome:

- Welding technology is a fundamental process for mechanical engineer by which student can able to weld different materials.
- Student will be aware about qualified welding process.
- Student will be aware about different types of safety requirement.
- Student will be aware about different types of welding defects.