

Gyanmanjari Institute of Technology (GMIT) Mechanical Engineering Department

SDP Course Content

Name of Course: CNC Programming





Course Objective:

- The objective of this short term course is to understand the functionality of the CNC, its usefulness in Manufacturing and real part producing whereby students will get a direction to make any product using CNC by programming.
- Student can able to know the function of CNC and can be aware about various types of tool and work holding devices like jig and fixtures.
- Students can be aware about various kinds of CNC cutters.

Syllabus

Sr.No.	Contents	Hrs.
1.	Introduction and classification of CNC and features of CNC	2
	machining	2
2.	Introduction about various types of tool and work holding	
	devices.	2
3.	Job preparation using part programming	2
4.	Job preparation using part programming	2
5.	Job preparation using part programming	2
6.	Job preparation using part programming	2
7.	Job preparation using part programming	2
8.	Job preparation using part programming	2
9.	Job preparation using part programming	2
10.	Job preparation using part programming	2
	Total Hrs.	20

Coordinator details and timing:

Course Duration	20 Hrs.
Course Coordinator	
Batch Size	20
Course Fee	NIL
Targeted Audiance	6th semester students of manufactureing domain

Resourse requirement:

Infrastructure requiremnent	Class room with projector, workshop
Hardware / Software	Master CAM
Consumable	Various size of M.S. round bar, square bar
Special Equipment	CNC & VMC machines

Lesson Plan

Assessment criteria

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

Course Outcome:

- Student can able to be CNC programmer.
- Student can get opportunity to increase their skill by creating realistic parts.
- Modern CAM skills will make students to stand in competition in this fast-growing industry.
- Certificate at the successful completion of the course.