Module Name (Mechanical Engineering)	Total Hours
CNC programming and machining	40

1	CNC PROGRAMMING WITH THE HELP OF CNC SIMULATION SOFTWARE	20 Hrs
	(a) Introduction to Computer Aided Manufacturing.	
	(b) Constructional Features, Advantages, Limitations and Application of CNC	
	machining.	
	(c) Specification of CNC machining centre.	
	(d) Work Holding and Tool Holding Devices and Automatic tool changer.	
	(e) Co-ordinates of CNC Machine.	
	(f) Work piece zero and Machine zero setting.	
	(g) Part Programing of Lathe and Milling Machine.	
	(h) Canned cycle, Subroutine and Do loops.	
2	HANDS ON PRACTICE ON CNC MACHINE	20 Hrs
	(a) Familiarization of control panel	
	(b) Setting a Work piece on machine.	
	(c) Entry of Part program in CNC Machine.	
	(d) Work piece setting methods.	
	(e) Tool setting methods	
	(f) Practice on CNC Turning and Milling or Vertical Machining Centre.	
	(g) Routine Maintenance.	