GOVT.	POLYTECHNIC BOLANGIR
	LESSON PLAN

LESSON PLAN					
Discipline : AUTOMOBILE	Semester: 4TH	Name of the Teaching Faculty: SNEHASIS SAHOO			
Subject - MANUEACTRURING	No. of Days /	Semester From date: 14.02.2023 To Date:			
Subject : MANUFACTRURING	per week class	23.05.2023			
TECHNOLOGY	allotted:	No. of Weesks: 13			
Week	Class Day	Topics			
3RD FEB	1st	Tool Materials- Composition of various tool materials			
	2nd	Physical properties & uses of such tool materials			
	3rd	Physical properties & uses of such tool materials			
	4th	Cutting Tools - Cutting action of various hand tools such as Chisel, hack saw blade, dies and reamer			
	1st	Cutting action of various hand tools such as dies and reamer			
ATU EED	2nd	Turning tool geometry and purpose of tool angle			
4TH FEB	3rd	Machining process parameters (Speed, feed and depth of cut)			
	4th	Coolants and lubricants in machining and purpose			
		<u> </u>			
	1st	Lathe Machine - Construction and working of lathe			
	2nd	Major components of a lathe and their function			
1ST MAR	3rd	Operations carried out in a lathe - Turning, thread cutting,			
	4th	taper turning, internal machining, parting off, facing, knurling)			
	1st	Safety measures during machining			
	2nd	Capstan lathe			
2ND MAR	3rd	Difference with respect to engine lathe			
	4th	Major components and their function , Define multiple tool holders			
	1st	Turret Lathe			
	2nd	Difference with respect to capstan lathe ,			
3RD MAR	3rd	Major components and their function			
	4th	Draw the tooling lay out for preparation of a hexagonal bolt & bush			
	1st	Shaper - Potential application areas of a shaper machine			
4TH MAR	2nd	Major components and their function			
	3rd	Explain the automatic table feed mechanism			
	4th	Explain the construction & working of tool head			
	1	,			

]	
	1st	Explain the quick return mechanism through sketch
	2nd	State the specification of a shaping machine
1ST APRIL	3rd	Planning Machine
	4.1	Application area of a planar and its difference with respect
	4th	to shaper
	1st	Major components and their functions
2ND APRIL	2nd	The table drive mechanism
	3rd	Working of tool and tool support
	4th	Clamping of work through sketch
	1st	Milling Machine
	2nd	Types of milling machine and operations performed by
2DD ADDII		them
3RD APRIL	3rd	Explain work holding attachment
		Construction & working of simple dividing head, universal
	4th	dividing head
	1st	Internal Assement
4TH APRIL	2nd	Procedure of simple and compound indexing
THAINE	3rd	Illustration of different indexing methods
	4th	Slotter Machine
	1st	Major components and their function
1ST MAY	2nd	Construction and working of slotter machine
251 1071	3rd	Tools used in slotter
	4th	Grinding-Significance of grinding operations
	1st	Manufacturing of grinding wheels
	2nd	Criteria for selecting of grinding wheels
	3rd	
		Specification of grinding wheels with example Working of
2ND MAY		Cylindrical Grinder, Surface Grinder, Centre less Grinder
	4th	
		Internal Machining operations-Classification of drilling
		machines , Working of - Bench drilling machine , Pillar
		drilling machine , Radial drilling machine
	1st	Boring - Basic Principle of Boring , Different between Boring
		and drilling
	2nd	Broaching - Types of Broaching (pull type, push type),
3RD MAY		Advantages of Broaching and applications
	3rd	Surface finish, lapping - Definition of Surface finish, Define
	4th	super finishing Description of lapping & explain their specific cutting