



# Lesson Plan

Discipline:		Semester:		Name of the Teaching Faculty:	
MECHANICAL		3RD		Er.Geetanjali Mardi	
Subject:		No. of days/per week class allotted: 4 Periods		From date: 15/09/2022	
PRODUCTION TECHNOLOGY (TH-1)				To date: 22/12/2022	
				No of weeks: 15	
Month	Week	Availability of Classes	Class Day	Theory Topics to be covered	
September	1	2	15.09.2022	CHAPTER-1.METAL FORMING PROCESS Briefing of syllabus. Introduction of production, Extraction and classification	
				Direct and indirect extrusion process.	
September	2	4	19.09.2022	Impact extrusion process	
			20.09.2022	Rolling & its classification.	
			22.09.2022	Difference between cold rolling and hot rolling process	
			23.09.2022	Types of rolling mills used in Rolling process.	
September	3	4	26.09.2022	DOUBT CLEARING & Question discussion class	
			27.09.2022	Assignment ,class test-1	
			29.09.2022	CHAPTER-2 METAL WELDING PROCESS	
			30.09.2022	Introduction of welding process & classification of various welding processes	
October	4	NIL		Puja Holidays (dt.3-10-2022 to 10-10-2022)	
October	5	3	11.10.2022	Classifications of various welding processes	
			13.10.2022	Fluxes used in welding.	
			14.10.2022	Oxy-acetylene welding process with advantage and disadvantage.	
October	6	4	17.10.2022	Types of flames used in Oxy-acetylene welding process.	
			18.10.2022	Arc welding process	
			20.10.2022	Advantage and disadvantage of Arc welding with application	
			21.10.2022	Specifications of arc welding electrodes.	
October	7	3	25.10.2022	Resistance welding and its classifications.	
			27.10.2022	Advantage and disadvantage of resistance welding with application.	
			28.10.2022	Resistance welding processes such as butt welding.	
October		1	30.10.2022	Spot welding, Flash welding	
November	8	3	01.11.2022	Projection welding, Seam welding	
			03.11.2022	TIG and MIG welding process.	
			04.11.2022	Explanation of TIG and MIG welding process.	
November	9	3	7.11.2022	Different welding defects with causes and remedies	
			10.11.2022	REVISION, Question discussion	
			11.11.2022	Class Test -II	
November	10	4	14.11.2022	CHAPTER-3 CASTING PROCESS Introduction of casting, Classify the various Casting processes.	
			15.11.2022	Define moulding, Explain the procedure of Sand mould casting	
			17.11.2022	INTERNAL ASSESMENT	
			18.11.2022	INTERNAL ASSESMENT	
			19.11.2022	INTERNAL ASSESMENT	

November	11	4	21.11.2022	Explain different types of moulding sands. composition and properties of moulding sands.
			22.11.2022	Classify different pattern and state various pattern allowances Classify core..
			24.11.2022	Describe construction and working of cupola furnace
			25.11.2022	3.7 Explain die casting method, Advantage and disadvantage of die casting method with application
November	12	2	28.11.2022	Explain centrifugal casting, such as true centrifugal casting, Advantages, limitation and area of application centrifugal casting.
			29.11.2022	Explain various casting defects, Explain various causes and remedies
December	13	2	01.12.2022	Revision, question discussion, class test-III
			02.12.2022	CHAPTER-4 POWDER METALLURGY Define powder metallurgy process. State advantages of powder metallurgy technology technique, Application of powder metallurgy
December	14	4	05.12.2022	Describe the methods of producing components by powder metallurgy technique.
			06.12.2022	Explain sintering, Economics of powder metallurgy.
			08.12.2022	CHAPTER-5 PRESS WORKS Introduction, Describe Press Works: blanking, Piercing and trimming
			09.12.2022	List various types of die and punch. Explain simple, Compound dies.
December	15	4	12.12.2022	Explain simple Progressive dies Describe the various advantages & disadvantages of above dies
			13.12.2022	CHAPTER-6 JIGS AND FIXTURE Define jigs and fixtures, Difference between jigs and fixtures.
			15.12.2022	State advantages of using jigs and fixtures. State the principle of locations
			16.12.2022	Describe the methods of location. Describe the 3-2-1 point location of rectangular jig.
December	16	3	19.12.2022	List various types of jig and fixtures.
			20.12.2022	REVISION, Question discussion
			22.12.2022	Extra class for Revision
			24.12.2022	

  
Miss Geetanjali Mardi  
Workshop Supdt.

  
15/09/2022  
HOD, Mechanical Engg.  
OSME, Keonjhar

  
Principal  
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