

Discipline: Mechanical Engineering	Semester : 3 rd Semester	Name of the Teaching Faculty: Shri Arun kumar Sahu, Ptgf mechanical engineering	
Subject: Production Technology	No. of Days/week Class Allotted: 60	No of weeks: 18	
week	Class Day	Theory Topics	
1 st	1 st	Extrusion :Definition & Classification.	
	2 nd	Explain direct,indirect and impact extrusion process.	
	3 rd	Define rolling. Classify it.	
	4 th	Differentiatebetweencoldrollingandhotrollingprocess.	
2 nd	1 st	Listthedifferenttypesofrollingmillsused inRollingprocess.	
	2 nd	Defineweldingand classifyvarious weldingprocesses.	
	3 rd	Explainfluxesusedinwelding.	
	4 th	ExplainOxy-acetyleneweldingprocess.	
3 rd	1 st	Explain various types of flames used in Oxy-acetylene weldingprocess.	
	2 nd	ExplainArcweldingprocess	
	3 rd	Specifyarcweldingelectrodes.	
	4 th	Defineresistanceweldingandclassifyit.	
4 th	1 st	Describe various resistance welding processes	
	2 nd	buttwelding	
	3 rd	spot welding, flash welding,	
	4 th	projection welding andseamwelding.	
5 th	1 st	ExplainTIGweldingprocess	
	2 nd	ExplainMIGweldingprocess	
	3 rd	Statedifferentweldingdefectswithcausesandremedies.	
	4 th	DefineCastingandClassifythevarious Castingprocesses.	
6 th	1 st	Explaintheprocedureof Sandmouldcasting.	
	2 nd	Explain different types of molding sands with their compositionandproperties.	
	3 rd	Classifydifferentpattern andstatevariouspattern allowances.	
	4 th	Classifycore.	
7 th	1 st	Describe construction and working of cupola and cruciblefurnace.	
	2 nd	Explaindie castingmethod.	
	3 rd	Explain centrifugal casting	

	4 th	true centrifugal casting	
8 th	1 st	centrifuging with advantages, limitation and area of application.	
	2 nd	Explain various casting defects with their causes and remedies.	
	3 rd	Define powder metallurgy process.	
	4 th	State advantages of powder metallurgy technology technique	
9 th	1 st	Describe the methods of producing components by powder metallurgy technique.	
	2 nd	Explains sintering.	
	3 rd	Economics of powder metallurgy.	
	4 th	Describe Press Works	
10 th	1 st	blanking, piercing and trimming.	
	2 nd	List various types of die and punch	
	3 rd	Explains simple, Compound & Progressive dies	
	4 th	Describe the various advantages & disadvantages of above dies	
11 th	1 st	Define jigs and fixtures	
	2 nd	State advantages of using jigs and fixtures	
	3 rd	State the principle of locations	
	4 th	Describe the methods of location with respect to 3-2-1 point location of rectangular jig	
12 th	1 st	List various types of jig and fixtures.	
	2 nd	Revision of Chapter – 1.1	
	3 rd	Revision of Chapter – 1.2	
	4 th	Revision of Chapter – 1.3, 1.4	
13 th	1 st	Revision of Chapter – 1.5	
	2 nd	Revision of Chapter – 2.1, 2.2	
	3 rd	Revision of Chapter – 2.3, 2.4	
	4 th	Revision of Chapter – 2.5, 2.6	
14 th	1 st	Revision of Chapter – 2.7, 2.8	
	2 nd	Revision of Chapter – 2.9, 2.10	
	3 rd	Revision of Chapter – 3.1, 3.2	
	4 th	Revision of Chapter – 3.3, 3.4	
15 th	1 st	Revision of Chapter – 3.5, 3.6, 3.7	
	2 nd	Revision of Chapter – 3.8, 3.9	
	3 rd	Revision of Chapter – 4.1, 4.2, 4.3	
	4 th	Revision of Chapter – 4.4, 4.5	
16 th	1 st	Revision of Chapter – 5.1, 5.2	
	2 nd	Revision of Chapter – 5.3, 5.4	
	3 rd	Revision of Chapter – 6.1, 6.2	
	4 th	Revision of Chapter – 6.3	

17 th	1 st	Revision of Chapter – 6.4	
	2 nd	Revision of Chapter – 6.5	
	3 rd	Discussion of Probable Questions and Answers (1)	
	4 th	Discussion of Probable Questions and Answers(2)	
18 th	1 st	Discussion of Probable Questions and Answers (3)	
	2 nd	Discussion of Probable Questions and Answers(4)	
	3 rd	Discussion of Probable Questions and Answers (5)	
	4 th	Discussion of Probable Questions and Answers (6)	