



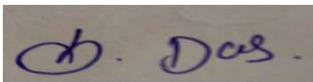
UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE: Mechanical Engineering	SEMESTER: 3rd Sem	NAME OF THE TEACHING FACULTY: Er.Sujit Kumar		
SUBJECT: PRODUCTION TECHNOLOGY	No of Days/Per week class allotted: 4 Class P/W(60)	Semester From Date:15/09/2022 To Date:22/12/2022 No. Of Weeks: 15		
WEEK	CLASS DAY	THEORY TOPICS	REMARKS	
1 st	1 st	Extrusion: Definition & Classification	Date	Dean/Principal
	2 nd	Explain direct, indirect and impact extrusion process.		
	3 rd	Define rolling. Classify it.		
	4 th	Differentiate between cold rolling and hot rolling process		
2 nd	1 st	Doubt clear class		
	2 nd	List the different types of rolling mills used in Rolling process		
	3 rd	Define welding and classify various welding processes.		
	4 th	Assignment		
3 rd	1 st	Assignment question Discussion		
	2 nd	Explain fluxes used in welding.		
	3 rd	Explain Oxy-acetylene welding process.		
	4 th	Explain various types of flames used in Oxy-acetylene welding process, Explain Arc welding process.		
	1 st	Specify arc welding electrodes		

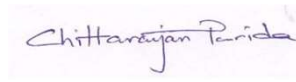
4 th	2 nd	Define resistance welding and classify it		
	3 rd	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.		
	4 th	Explain TIG and MIG welding process		
5 th	1 st	Class Test		
	2 nd	State different welding defects with causes and remedies.		
	3 rd	Define Casting and Classify the various Casting processes		
	4 th	Explain the procedure of Sand mould casting.		
6 th	1 st	Revision of Last Class		
	2 nd	Assignment		
	3 rd	Explain different types of molding sands with their composition and properties		
	4 th	Classify different pattern and state various pattern allowances, Classify core.		
7 th	1 st	Describe construction and working of cupola and crucible furnace		
	2 nd	Describe construction and working of cupola and crucible furnace		
	3 rd	Doubt clear Class		
	4 th	Assignment		
8 th	1 st	Explain die casting method.		
	2 nd	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application		

	3 rd	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application		
	4 th	Doubt Clearing Class and Assignment Questions Discussion.		
9 th	1 st	Explain various casting defects with their causes and remedies.		
	2 nd	Define powder metallurgy process		
	3 rd	Revision Class		
	4 th	Define powder metallurgy process		
10 th	1 st	Doubt clear class		
	2 nd	Internal Question Discussion		
	3 rd	State advantages of powder metallurgy technology technique		
	4 th	State advantages of powder metallurgy technology technique		
11 th	1 st	Doubt Clear Class		
	2 nd	Describe the methods of producing components by powder metallurgy technique.		
	3 rd	Class Test		
	4 th	Explain sintering.		
12 th	1 st	Doubt Clear Class		
	2 nd	Economics of powder metallurgy.		
	3 rd	Describe Press Works: blanking, piercing and trimming		

	4 th	List various types of die and punch		
13 th	1 st	Explain simple, Compound & Progressive dies		
	2 nd	Explain simple, Compound & Progressive dies		
	3 rd	Doubt clear class		
	4 th	Class Test		
14 th	1 st	Describe the various advantages & disadvantages of above dies		
	2 nd	Define jigs and fixtures		
	3 rd	State advantages of using jigs and fixtures		
	4 th	State the principle of locations		
15 th	1 st	Describe the methods of location with respect to 3-2-1 point location of rectangular jig		
	2 nd	Describe the methods of location with respect to 3-2-1 point location of rectangular jig		
	3 rd	List various types of jig and fixtures.		
	4 th	Discussion Sample paper question		



HOD



DEAN



PRINCIPAL