SESSION	WINTER 2022				
BRANCH:	MECHANICAL ENGINEERING				
SEMESTER	3RD (sec -A)				
SUBJECT:	PRODUCTION ENGINEERING (TH-01)				
NAME OF THE FACULTY:	K. Das				
SL NO.	MONTH	No. of academic days available for the subject	DATE	TOPICS TO BE COVERED	% COVERED
1	Sep-22	10	16.9.22	1.1 Extrusion: Definition & Classification	19%
			19.9.22	1.2 Explain direct, indirect and impact extrusion process	
			20.9.22	1.3 Define rolling. Classify it.	
			21.9.22	1.4 Differentiate between cold rolling and hot rolling process	
			23.9.22	1.5 List the different types of rolling mills used in Rolling process	
			24.9.22	Rolling process	
			26.9.22	2.1 Define welding and classify various welding processes	
			27.9.22	Define welding and classify various welding processes	
			28.9.22	2.2 Explain fluxes used in welding	
			30.9.22	Explain fluxes used in welding	
2	Oct-22	15	10.10.22	2.3 Explain Oxy-acetylene welding process.	29%
			11.10.22	2.4 Explain various types of flames used in Oxy-acetylene welding process.	
			12.10.22	Explain various types of flames used in Oxy-acetylene welding process.	
			14.10.22	2.5 Explain Arc welding process	
			15.10.22	2.6 Specify arc welding electrodes	
			17.10.22	2.7 Define resistance welding and classify it.	
			18.10.22	Define resistance welding and classify it.	
			19.10.22	2.8 Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.	
			21.10.22	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.	
			22.10.22	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.	
			25.10.22	2.9 Explain TIG and MIG welding process	
			26.10.22	Explain TIG and MIG welding process	
			28.10.22	2.10 State different welding defects with causes and remedies	

			29.10.22	3.1 Define Casting and Classify the various Casting processes	
			31.10.22	3.2 Explain the procedure of Sand mould casting	
3	Nov-22	16	1.11.22	3.3 Explain different types of molding sands with their composition and properties	31%
			2.11.22	3.4 Classify different pattern and state various pattern allowances	
			4.11.22	3.5 Classify core	
			5.11.22	3.6 Describe construction and working of cupola and crucible furnace.	
			8.11.22	Describe construction and working of cupola and crucible furnace.	
			9.11.22	3.7Explain die casting method.	
			11.11.22	3.8 Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application	
			12.11.22	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application	
			21.11.22	3.9Explain various casting defects with their causes and remedies	
			22.11.22	4.1 Define powder metallurgy process	
			25.11.22	4.2 State advantages of powder metallurgy technology technique	
			26.11.22	4.3 Describe the methods of producing components by powder metallurgy technique.	
			27.11.22	4.4 Explain sintering	
			28.11.22	4.5 Economics of powder metallurgy.	
			29.11.22	5.1 Describe Press Works: blanking, piercing and trimming.	
			31.11.22	5.2 List various types of die and punch	
4	Dec-22	11	2.12.22	5.3 Explain simple, Compound & Progressive dies	21%
			3.12.22	Explain simple, Compound & Progressive dies	
			5.12.22	Explain simple, Compound & Progressive dies	
			6.12.22	5.4 Describe the various advantages & disadvantages of above dies	
			7.12.22	6.1 Define jigs and fixtures	
			9.12.22	6.2 State advantages of using jigs and fixtures	
			10.12.22	6.3 State the principle of locations	
			13.12.22	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig	
			14.12.22	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig	
			16.12.22	6.5List various types of jig and fixtures	
			17.12.22	List various types of jig and fixtures	

SIGNATURE OF LECTURER

SIGNATURE OF H.O.D. (MECHANICAL)

SESSION	WINTER 2022				
BRANCH:	MECHANICAL ENGINEERING				
SEMESTER	3RD(sec B)				
SUBJECT:	PRODUCTION TECHNOLOGY (TH-01)				
NAME OF THE FACULTY:	S PANDA				
SL NO.	MONTH	No. of academic days available for the subject	DATE	TOPICS TO BE COVERED	% COVERED
1	Sep-22	10	16.09.22	1.1 Extrusion: Definition & Classification	19%
			19.9.22	1.2 Explain direct, indirect and impact extrusion process	
			21.9.22	1.3 Define rolling. Classify it.	
			22.9.22	1.4 Differentiate between cold rolling and hot rolling process	
			23.9.22	1.5 List the different types of rolling mills used in Rolling process	
			24.9.22	List the different types of rolling mills used in Rolling process	
			26.9.22	2.1 Define welding and classify various welding processes	
			28.9.22	Define welding and classify various welding processes	
			29.9.22	2.2 Explain fluxes used in welding	
			30.9.22	Explain fluxes used in welding	
2	Oct-22	15	10.10.22	2.3 Explain Oxy-acetylene welding process.	29%
			12.10.22	2.4 Explain various types of flames used in Oxy-acetylene welding process.	
			13.10.22	Explain various types of flames used in Oxy-acetylene welding process.	
			14.10.22	2.5 Explain Arc welding process	
			15.10.22	2.6 Specify arc welding electrodes	
			17.10.22	2.7 Define resistance welding and classify it	
			19.10.22	Define resistance welding and classify it	
			20.10.22	2.8 Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding	
			21.10.22	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding	
			22.10.22	Describe various resistance welding processes such as butt welding, spot welding, flash welding, projection welding and seam welding.	

			26.10.22	2.9 Explain TIG and MIG welding process	
			27.10.22	Explain TIG and MIG welding process	
			28.10.22	2.10 State different welding defects with causes and remedies	
			29.10.22	3.1 Define Casting and Classify the various Casting processes	
			31.10.22	3.2 Explain the procedure of Sand mould casting	
3	Nov-22	15	2.11.22	3.3 Explain different types of molding sands with their composition and properties	31%
			3.11.22	3.4 Classify different pattern and state various pattern allowances	
			4.11.22	3.5 Classify core	
			5.11.22	3.6 Describe construction and working of cupola and crucible furnace	
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			10.11.22	3.7Explain die casting method.	
			11.11.22	3.8 Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application	
			12.11.22	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application	
			21.11.22	3.9Explain various casting defects with their causes and remedies	
			23.11.22	4.1 Define powder metallurgy process	
			24.11.22	4.2 State advantages of powder metallurgy technology technique	
			25.11.22	4.3 Describe the methods of producing components by powder metallurgy technique	
			26.11.22	4.4 Explain sintering	
			28.11.22	4.5 Economics of powder metallurgy.	
			30.11.22	5.1 Describe Press Works: blanking, piercing and trimming.	
4	Dec-22	13	1.12.22	5.2 List various types of die and punch	21%
			2.12.22	5.3 Explain simple, Compound & Progressive dies	
			3.12.22	Explain simple, Compound & Progressive dies	
			5.12.22	Explain simple, Compound & Progressive dies	
			7.12.22	5.4 Describe the various advantages & disadvantages of above dies	
			8.12.22	6.1 Define jigs and fixtures	
			9.12.22	6.2 State advantages of using jigs and fixtures	
			10.12.22	6.3 State the principle of locations	
			12.12.22	6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig	

		14.12.22	K.1 Describe the methods of location with respect to 2 or 3 point location of rectangular jig
		15.12.22	A.1 list various types of jig and fixtures
		16.12.22	List various types of jig and fixtures
		17.12.22	REVISION

SIGNATURE OF LECTURER

SIGNATURE OF HOD (MECHANICAL ENGG.)