3rd SEMESTER MECHANICAL ENGINEERING (2021-22) SUBJECT-PRODUCTION TECHNOLOGY TOTA

TOTAL PERIODS-60 THEORY-4P/WEEK

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SI No.	week	Day	Topics to be covered
1	1 st	1 st day	Introduction to Metal Forming Processes
		2 nd day	Extrusion: Definition & Classification
		3 rd day	Direct and Indirect Extrusion process
		4 th day	Explain Impact extrusion process
SI No.	week	Day	Topics to be covered
2	2 nd	1 st day	Define Rolling and Classification
		2 nd day	Differentiate between cold rolling and hot rolling process
		3 rd day	List the different types of rolling mills used in Rolling process
		4 th day	Doubt clearance and Revision
SI No.	week	Day	Topics to be covered
3	3 rd	1 st day	Introduction to Welding
		2 nd day	Define Welding and classify various welding processes
		3 rd day	Fluxes used in welding.
		4 th day	Oxy-acetylene welding process
Sl No.	week	Day	Topics to be covered
4	4 th	1 st day	Types of flames used in Oxy-acetylene welding process
		2 nd day	Arc welding process
		3 rd day	Difference between DC and AC Arc welding process
		4 th day	Specification of Arc welding electrodes
SI No.	week	Day	Topics to be covered
5	5 th	1 st day	Define Resistance welding and Classification
		2 nd day	Butt welding and Spot welding Process
		3 rd day	Flash welding and Projection welding Process
		4 th day	Seam welding with advantages and applications
Sl No.	week	Day	Topics to be covered
6	6 th	1 st day	TIG Welding process with advantages and applications

		2 nd day	MIG Welding process with advantages and applications
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		3 rd day	State different Welding defects with causes
		4 th day	Remedies of welding defects
Sl No.	week	Day	Topics to be covered
7	7 th	1 st day	Define Casting and Classify the various Casting processes.
		2 nd day	Explain the procedure of Sand mould casting
		3 rd day	Difference between Green sand and Dry sand mould casting
		4 th day	Explain different types of molding sands with their composition and properties
Sl No.	week	Day	Topics to be covered
8	8 th	1 st day	Classify different pattern and State various pattern allowances
		2 nd day	Classification of Cores
		3 rd day	Describe construction and working of cupola furnace
		4 th day	Describe construction and working of crucible furnace
Sl No.	week	Day	Topics to be covered
9	9 th	1 st day	Die casting method with advantages, application and limitations
		2 nd day	True centrifugal casting with advantages, limitation and area of application
		3 rd day	Centrifugal casting with advantages, limitation and area of application
		4 th day	Various casting defects with their causes and remedies
Sl No.	week	Day	Topics to be covered
10	10 th	1 st day	Define powder metallurgy process
		2 nd day	State advantages of powder metallurgy technology technique
		3 rd day	Describe the methods of producing components by powder metallurgy technique
		4 th day	Sintering process of powder metallurgy
		Day	Topics to be covered
Sl No.	week		
	weeк 11 th	1 st day	Economics of powder metallurgy

		3 rd day	Blanking and Piercing operation of Press work
		4 th day	Trimming operation of Press work
Sl No.	week	Day	Topics to be covered
12	12 th	1 st day	List various types of dies and punch
		2 nd day	Explain Simple and Compound Dies
		3 rd day	Various advantages and disadvantages of above dies
		4 th day	Define jigs and fixtures
Sl No.	week	Day	Topics to be covered
13	13 th	1 st day	State advantages of using jigs and fixtures
		2 nd day	State the principle of locations
		3 rd day	Describe the methods of location with respect to 3-2-1 point location of rectangular jig
		4 th day	Describe the methods of location with respect to 3-2-1 point location of rectangular jig
Sl No.	week	Day	Topics to be covered
	week	Day 1 st day	
No.			Topics to be covered
No.		1 st day	Topics to be covered List various types of Fixtures
No.		1 st day 2 nd day	Topics to be covered List various types of Fixtures List various types of Jigs
No.		1 st day 2 nd day 3 rd day	Topics to be covered List various types of Fixtures List various types of Jigs Limitation of Jigs and Fixtures
No. 14 Sl	14 th	1 st day 2 nd day 3 rd day 4 th day	Topics to be coveredList various types of FixturesList various types of JigsLimitation of Jigs and FixturesProggressive and Compound Dies
No. 14 Sl No.	14 th week	1 st day 2 nd day 3 rd day 4 th day Day	Topics to be covered List various types of Fixtures List various types of Jigs Limitation of Jigs and Fixtures Proggressive and Compound Dies Topics to be covered
No. 14 Sl No.	14 th week	1 st day 2 nd day 3 rd day 4 th day Day 1 st day	Topics to be covered List various types of Fixtures List various types of Jigs Limitation of Jigs and Fixtures Proggressive and Compound Dies Topics to be covered Doubt clearance and Revision