

Discipline :MECHANICAL ENGG	Semester :3 rd	Name of the Teaching Faculty:JAYADEV DASH
Subject:Producti on Technology	No. of days/per week class allotted:0 4	Semester From date : 01.09.2020 To Date: 19.03.2021 No. of Weeks: 15
Week	Class Day	Theory / Practical Topics
1 ST	1 ST	Extrusion:Definition&Classification
	2 ND	Explainedirect,indirectandimpact extrusionprocess.
	3 RD	Definerolling.Classifyit.
	4 TH	Definerolling.Classifyit.
2 ND	1 ST	Differentiatebetweencoldrollingandhotrollingprocess
	2 ND	Listthedifferenttypesofrollingmillsused inRollingprocess
	3 RD	Listthedifferenttypesofrollingmillsused inRollingprocess
	4 TH	Defineweldingand classifyvarious weldingprocesses.
3 RD	1 ST	Defineweldingand classifyvarious weldingprocesses
	2 ND	Explainfluxesusedinwelding.
	3 RD	ExplainOxy-acetyleneweldingprocess.
	4 TH	Explainvarioustypesof flamesusedinOxy-acetylenewelding process.
4 TH	1 ST	ExplainArcweldingprocess.
	2 ND	Specifyarcweldingelectrodes.
	3 RD	Defineresistanceweldingandclassifyit.
	4 TH	Defineresistanceweldingandclassifyit.
5 TH	1 ST	Describevarious resistanceweldingprocesses such as butt welding,spotwelding,flashwelding,projectionweldingandseamwelding
	2 ND	Describevarious resistanceweldingprocesses such as butt welding,spotwelding,flashwelding,projectionweldingandseamwelding.
	3 RD	Describevarious resistanceweldingprocesses such as butt welding,spotwelding,flashwelding,projectionweldingandseamwelding.
	4 TH	ExplainTIGandMIGweldingprocess
6 TH	1 ST	Statedifferentweldingdefectswithcausesandremedies
	2 ND	Statedifferentweldingdefectswithcausesandremedies
	3 RD	Statedifferentweldingdefectswithcausesandremedies
	4 TH	DefineCastingandClassifythevarious Castingprocesses.
7 TH	1 ST	DefineCastingandClassifythevarious Castingprocesses
	2 ND	DefineCastingandClassifythevarious Castingprocesses
	3 RD	Explaintheprocedureof Sandmouldcasting.
	4 TH	Explain different types of molding sands with their composition and properties
8 TH	1 ST	Explain different types of molding sands with their composition and properties
	2 ND	Classify different pattern and state various pattern allowances
	3 RD	Classify different pattern and state various pattern allowances
	4 TH	Classifycore.
9 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	Explain die casting method.
	4 TH	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application.
10 TH	1 ST	Explain centrifugal casting such as true centrifugal casting, centrifuging with advantages, limitation and area of application.
	2 ND	Explain various casting defects with their causes and remedies
	3 RD	Explain various casting defects with their causes and remedies
	4 TH	Define powder metallurgy process.
11 TH	1 ST	Define powder metallurgy process.
	2 ND	State advantages of powder metallurgy technology technique
	3 RD	Describe the methods of producing components by powder metallurgy technique.
	4 TH	Describe the methods of producing components by powder metallurgy technique
12 TH	1 ST	Explain sintering.
	2 ND	Economics of powder metallurgy
	3 RD	Describe Press Works: blanking, piercing and trimming.
	4 TH	Describe Press Works: blanking, piercing and trimming.
13 TH	1 ST	List various types of die and punch
	2 ND	Explain simple, Compound & Progressive dies
	3 RD	Explain simple, Compound & Progressive dies
	4 TH	Describe the various advantages & disadvantages of above dies
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	List various types of jig and fixtures.

Learning Resouces:

01. ProductionTechnology, Vol-I& IIbyO.P.Khanna,DhanpatRaiPublication
02. Workshoptechnology,Vol-I&II by B.SRaghuwanshi, DhanpatRai&Co
03. Manufacturing technology, Vol-&II byP.N.Rao, TMH
04. Manufacturingtechnology,Vol-I byP.C.Sharma, S.Chand

Jayadeb Dash
PTGF, Mech Engg.