Discipline :MECHANICAL	Semester :3 rd	Name of the Teaching Faculty: HIMANSU SEKHAR SETHI
ENGG	.5	
Subject:Producti	No. of	Semester From July to December
on Technology	days/per	
	week	No. of Weeks: 15
	class	
	allotted:0	
	4	
Week	Class	Theory / Practical Topics
	Day	
1 ST	1 ST	Extrusion:Definition&Classification
	2^{ND}	Explaindirect, indirect and impact extrusion process.
	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, projection welding and seamwelding
	2 ND	Describevarious resistanceweldingprocesses such as butt
		welding, spotwelding, flashwelding, projection welding and seamwelding.
	3 RD	Describevarious resistanceweldingprocesses such as butt
		welding, spotwelding, flashwelding, projection welding and seamwelding.
	4 TH	ExplainTIGandMIGweldingprocess
6 TH	1 ST	
0	1	Statedifferentweldingdefectswithcausesandremedies
	2 ND	Statedifferentweldingdefectswithcausesandremedies
	3 RD	Statedifferentweldingdefectswithcausesandremedies
_TII	4 TH	DefineCastingandClassifythevarious Castingprocesses.
7^{TH}	1 ST	DefineCastingandClassifythevarious Castingprocesses
	2 ND	DefineCastingandClassifythevarious Castingprocesses
	3 RD	Explaintheprocedure of Sandmould casting.
	4 TH	Explain different types of molding sands with their composition and
TO I	or.	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 cruciblefurnace
	2^{ND}	Describe construction and working of cupola and crucible furnace.
	3 RD	Explaindie castingmethod.
	4^{TH}	Explain centrifugal casting such as true
		centrifugal
		casting,centrifugingwithadvantages,limitation
		andarea ofapplication.
10 TH	1 ST	Explain centrifugal casting such as true
		centrifugal
		casting,centrifugingwithadvantages,limitation
		andarea of application.
	2^{ND}	Explainvarious casting defects with their causes
	200	andremedies
	3 RD	Explain various casting defects with their causes and remedies
. TH	4 TH	Definepowder metallurgyprocess.
11 TH	1 ST	Definepowder metallurgyprocess.
	2 ND	Stateadvantages of powder metallurgytechnologytechnique
	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	Explainsintering.
	2^{ND}	Economicsofpowdermetallurgy
	3 RD	DescribePressWorks:blanking,piercingandtrimming.
	4 TH	DescribePressWorks:blanking,piercingandtrimming.
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	Describethevariousadvantages&disadvantagesofabovedies
14 TH	1 ST	Describethevariousadvantages&disadvantagesofabovedies
17	2 ND	Definejigsandfixtures Definejigsandfixtures
	2	Definejigsandrixtures
	3 RD	Stateadvantagesofusingjigsandfixtures
	4 TH	State the principle of locations
15TH	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
	- DD	rectangular jig
	3 RD	Listvarioustypesofjigandfixtures.
	4 TH	Listvarioustypesofjigandfixtures.
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Learning Resouces:

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