Badriprasad Institute of Technology, Sambalpur

Lesson plan for Theory -1, Production Technology

Semester & Branch : 3rd Sem Mechanical Engineering
Name of the faculty : Mr. Paresh Kumar Pradhan
Total Periods-60
No of periods /week-4

Week	Day	Topics
1 _{st}	1 _{st}	Extrusion :Definition & Classification.
	2 _{nd}	Explain direct,indirect and impact extrusion process.
	3rd	Define rolling. Classify it.
	4 _{th}	Differentiatebetweencoldrollingandhotrollingprocess.
2 _{nd}	5th	Listthedifferenttypesofrollingmillsused inRollingprocess.
	6th	Defineweldingand classifyvarious weldingprocesses.
	7 _{th}	Explainfluxesusedinwelding.
	8th	ExplainOxy-acetyleneweldingprocess.
3rd	9 _{th}	Explain various types of flames used in Oxy-acetylene weldingprocess.
	10th	ExplainArcweldingprocess
	11 th	Specifyarcweldingelectrodes.
	12th	Defineresistanceweldingandclassifyit.
4th	13th	Describe various resistance welding processes
	14th	buttwelding
	15th	spot welding, flash welding,
	16th	projection welding andseamwelding.
5th	17 th	ExplainTIGweldingprocess
G	18 _{th}	ExplainMIGweldingprocess
	19th	Statedifferentweldingdefectswithcausesandremedies.
	20th	DefineCastingandClassifythevarious Castingprocesses.
6th	21st	Explaintheprocedure of Sandmould casting.
	22 _{nd}	Explain different types of molding sands with their compositionand properties.
	23rd	Classifydifferentpattern andstatevariouspattern allowances.
	24th	Classifycore.
	25th	Describe construction and working of cupola and cruciblefurnace.
	26th	Explaindie castingmethod.
7th	27th	Explain centrifugal casting
	28th	Explainvariouscastingdefectswiththeir causes andremedies.
	29th	Definepowder metallurgyprocess.
0.1	30th	Stateadvantages ofpowder metallurgytechnologytechnique
8th	31st	Describe the methods of producing components by powdermetallurgytechnique.
	32 _{nd}	Explainsintering.
	33rd	Economicsofpowdermetallurgy.
0.4	34th	DescribePressWorks
9th	35th	blanking,piercingandtrimming.
	36th	List various types of die and punch
10th	37th	Explainsimple,Compound&Progressivedies
	38th	Describethevariousadvantages&disadvantagesofabovedies

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	39th	Definejigsandfixtures
11th	40 th	Stateadvantagesofusingjigsandfixtures
	41st	Statethe principleoflocations
	42 _{nd}	Describe the methods of location with respect to 3-2-1 pointlocationofrectangularjig
	43 rd	Listvarioustypesofjigandfixtures.
	44 th	Revision of Chapter – 1.1
12th	45th	Revision of Chapter – 1.2
	46 th	Revision of Chapter – 1.3,1.4
	47 _{th}	Revision of Chapter – 1.5
	48th	Revision of Chapter – 2.1,2.2
13th	49th	Revision of Chapter – 2.3,2.4
	50th	Revision of Chapter – 2.5,2.6
	51 st	Revision of Chapter – 2.7,2.8
	52 _{nd}	Revision of Chapter – 2.9,2.10
14th	53 rd	Revision of Chapter – 3.1,3.2
	54th	Revision of Chapter – 3.3,3.4
	55th	Revision of Chapter – 3.5,3.6,3.7
	56th	Revision of Chapter – 3.8,3.9
15th	57th	Revision of Chapter – 4.1,4.2,4.3
	58th	Revision of Chapter – 4.4,4.5
	59th	Revision of Chapter – 5.1,5.2
	60th	Revision of Chapter – 5.3,5.4

Sign of Faculty Sign of HOD