

NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY





LESSON PLAN

SUBJECT: TH -1 (Production Technology)

Name Of The Faculty: - Er. Subhrajyoti Rout

Branch:-Automobile Engineering

Session: - 2024-25

Semester:-3rd

Examination :- 2024(w)

CHAPTER WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	Metal Forming Processes	07	07
2	Welding	16	16
3	Casting	16	16
4	Powder Metallurgy	07	07
5	Press Work	07	07
6	Jigs and fixtures	07	07
	TOTAL	60	60

Sign of Faculty

Sign of H.O.D 29/06/24

Discipline: ECHANICAL ENGG.	Semester:	Name of the Teaching Faculty: Er. Subhrajyoti Rout		
	-	Session : 2024-25	Examination: 2024(w)	
Week	ck Class Day Topics to be covered		s to be covered	
	1 st	1.1 Extrusion :Definition &Classification		
1 st	2 nd	1.2Explaindirect,indirect and impact ex	xtrusion process.	
•	3 rd	1.2Explaindirect,indirect and impact e	xtrusion process.	
	4 th	1.3 Define rolling .Classify it		
	1 st	1.3 Define rolling .Classify it		
	2 nd	1.4Differentiatebetween cold rolling ar	nd hot rolling process.	
2 nd	3 rd	1.5Listthedifferent types of rolling mill	ls used in Rolling process.	
	4 th	2.1Defineweldingandclassifyvariouswo	elding process.	
	1 st	2.2Explainfluxesusedin welding.		
	2 nd	2.3ExplainOxy-acetyleneweldingproce	rss.	
3 rd	3 rd	2.4Explainvarioustypesofflamesusedir	nOxy-acetylenewelding process	
	4 th	2.4Explainvarioustypesofflamesusedir	nOxy-acetylenewelding process	
4 th	1 st	2.5ExplainArcwelding process.		
	2 nd	2.5ExplainArcwelding process.		
	3 rd	2.5ExplainArcwelding process.	The state of the s	
	4 th	2.6 Specify arc welding electrodes.	70 Page 1 2 2	
	1 st	2.7Defineresistanceweldingandclassif	yit.	
	2 nd	2.7Defineresistanceweldingandclassif	yit.	
5 th	3 rd	2.8Describevariousresistancewelding flash welding, projection welding and	processessuchasbuttwelding,spot welding, seam welding.	
ov ⊸ J	4 th	flash welding, projection welding and		
	1 st	2.8Describevariousresistancewelding flash welding, projection welding and	processessuchasbuttwelding,spot welding, seam welding.	
	2 nd	2.9 Explain TIG and MIG welding proc	ess	
6 th	3 rd	2.9 Explain TIG and MIG welding proc	ress	
A .	4 th	2.10Statedifferentweldingdefectswith	causes and remedies.	
	1 st	3.1Definecastingandclassifythevariou	scastingprocesses.	
7 th	2 nd	3.1Definecastingandclassifythevariou	scastingprocesses.	
	3 rd	3.2Explaintheprocedure of Sand mou		
	4 th	3.2Explaintheprocedure of Sand mou	ld casting	

Week	Class Day	Topics to be covered	
8 th	1 st	3.3 Explain different type of molding sands with their composition and properties.	
	2 nd	3.3 Explain different types of molding sands with their composition and properties	
	3 rd	3.4 Classify different pattern and state various pattern allowances	
	4 th	3.4Classifydifferentpatternandstatevariouspatternallowances	
, es	1 st	3.5Classify core	
	2 nd	3.7Explaindiecasting method.	
	3 rd	3.7Explaindiecasting method.	
	4 th	3.8Explaincentrifugalcastingsuchastruecentrifugal casting,	
10 th	1 st	3.8Explaincentrifugalcastingsuchastruecentrifugalcasting,centrifugingwith advantages, limitation and area of application	
	2 nd	3.9Explainvariouscastingdefectswiththeircausesandremedies.	
	3 rd	INTERNAL ASSESMENT	
	4 th	INTERNAL ASSESMENT	
11 th	1 st	4.1 Define powder metallurgy process	
	2 nd	4.2Stateadvantagesofpowdermetallurgytechnologytechnique	
	3 rd	4.3Describethemethodsofproducingcomponentsbypowder metallurgy technique	
	4 th	4.4Explainsintering.	
12 th	1 st	4.4Explainsintering.	
-	2 nd	4.5Economicsofpowder metallurgy.	
	3 rd	4.6Describepressworks,blanking, piercing and trimming.	
	4 th	4.6Describepressworks,blanking,piercing and trimming.	
	1 st	5.3Explainsimple,Compound&Progressive dies	
13 th	2 nd	5.3Explainsimple,Compound&Progressive dies	
	3 rd	5.4Describethevariousadvantages&disadvantagesofabovedies	. 1
	4 th	5.4Describethevariousadvantages&disadvantagesofabovedies	_
14 th	1 st	.1Define jigs and fixtures	
	2 nd	6.2Stateadvantagesofusingjigsand fixtures	
	3 rd	6.2Stateadvantagesofusingjigsand fixtures	
	4 th	6.3Statetheprincipleof locations	

	Week	Class Day	Topics to be covered
			6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
	12		6.4 Describe the methods of location with respect to 3-2-1 point location of rectangular jig
		3rd	6.5 List various types of jig and fixtures
		4 th	6.5 List various types of jig and fixtures

Sign Of Faculty

Sign Of H. a. Dzglo6/24