

Discipline: Mechanical engg.
Subject: Production Technology

Semester: 3rd
Number of days/week
class allotted: 5

Name of the teaching faculty: Ramakanda Nayak
Semester from: 01/10/21
to: 03/01/22

Week	No. of Period	Topics to be covered
1 st oct	1 st	Introduction of production technology
to		
2 nd oct		<u>Gandhi Jayanti</u>
	1 st	Metal Forming process, Definition of extrusion and its classification
4 th oct		
to	2 nd	Direct and Indirect extrusion process
9 th oct	3 rd	Impact extrusion process
	4 th	Definition of rolling and its classification
	5 th	Difference between hot and cold rolling
11 th oct		
to		DURGA PUJA HOLIDAYS
18 th oct		
	1 st	Different types of rolling mills
	2 nd	KUMAR PURNIMA
19 th oct	3 rd	Definition of welding and its classification
to		
23 rd oct	4 th	Fluxes used in welding
	5 th	oxyacetylene welding process
	1 st	Various types of flames used in oxyacetylene welding process
25 th oct		
to	2 nd	Explanation of Arc welding
30 th oct	3 rd	Arc welding electrodes
	4 th	Resistance welding & classification
	5 th	Butt welding
	1 st	Spot welding
1 st NOV	2 nd	Flash welding
to	3 rd	projection welding
6 th NOV	4 th	Seam welding

Week	No. of Periods	Topics to be covered.
	5 th	Tungsten inert gas welding (TIG)
	1 st	Metal inert gas welding (MIG)
8 th Nov	2 nd	Different welding defects
to		with causes and remedies.
13 th Nov	3 rd	Revision of welding process
	4 th	Definition of casting and classification of casting processes
	5 th	casting terms
	1 st	LAST MONDAY OF KARTIKA
15 th Nov	2 nd	procedure of sand mould casting
to	3 rd	Different types of moulding sands
20 th Nov	4 th	composition and properties of different moulding sands.
	5 th	KARTIKA PURNIMA
22 nd Nov	1 st	Definition and classification of patterns
to		
27 th Nov	2 nd	Various pattern allowances
	3 rd	Definition and classification of core.
	4 th	construction and working of cupola furnace
	5 th	PRATHAMASTAMI
29 th Nov	1 st	construction and working of crucible furnace
to		
4 th Dec	2 nd	Explanation of die casting method
	3 rd	centrifugal casting, true centrifugal casting with its advantages, limitations & applications

Week	No. of periods	Topics to be covered.
	4 th	contrasting casting with advantages, limitations and applications.
	5 th	Various casting defects with their causes and remedies.
6 th Dec	1 st	powder metallurgy process
to	2 nd	Advantages of powder metallurgy
11 th Dec	3 rd	Method of producing components by powder metallurgy technique
	4 th	Explanation of sintering
	5 th	Economics of powder metallurgy
13 th Dec	1 st	Revision of powder metallurgy
to	2 nd	Description of press work
18 th Dec	3 rd	Blanking, piercing and trimming
	4 th	LAST THURSDAY OF MARGASHIRA
	5 th	Various types of die and punch
20 th Dec	1 st	Simple die explanation
to	2 nd	compound die explanation
25 th Dec	3 rd	progressive die explanation
	4 th	Advantages and disadvantages of above dies.
	5 th	CRIST MASS
27 th Dec	1 st	Definition of jigs and fixtures
to	2 nd	Advantages of using jigs and fixtures
1 st Jan	3 rd	principle of locations
	4 th	3-2-1 point location of rectangular jig

Week	No. of period	Topic to be covered
	5th	NEW YEAR
3rd Jan to 8th Jan	1st	Various types of Jigs and fixtures
	2nd	Revision of Jigs and fixtures
	3rd	Revision of metal forming process
	4th	Revision of Welding
	5th	Revision of previous year questions.

closing of attendance date has been extended upto 18 Jan 2022.

~~Verified~~
 J. J.
 28/12/2021

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 28/12/2021

~~Revised~~