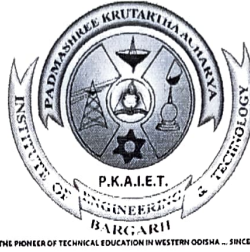


PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER

Session-2022-2023

Discipline: Mechanical Engg

Semester: 3rd








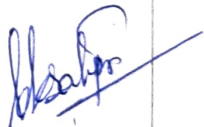

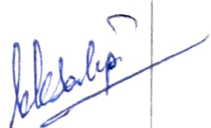
Subject: Production Technology

Name of the Teaching Faculty: Dr. B.B. Satpathy

B.B. Satpathy







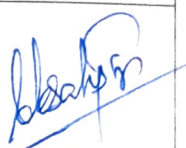


Subject: PT No. of Days/per week class allotted 04

Semester From Date : 15-9-2022 To Date : 21-01-2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
16/9/22	Introduction	Introduction	Metal	
20/9/22	Black Smithy	Metal work	Workshop fundamental	
23/9/22	Metal forming	Covered Processes	Melting Temp.	
24/9/22	Cold forming	Cold Forming	Cold work Hot work	
26/9/22	Hot forming	Hot Metal forming	Hot Work Re Heat	
27/9/22	Recrystallisation	Depends Temperature	above and below	
30/9/22	Extrusion	Process	EXP Tooth paste Sugar Cane	
1/10/22	Classification of Extrusion	Types of Extrusion	Defination	
14/10/22	Direct Extrusion	Direct	figure	
17/10/22	Examples	Given some examples	Tooth paste	

Subject: PT No. of Days/per week class allotted 04

Semester From Date : 15.9.2022 To Date : 21.01.2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
18/10/22	Indirect Extrusion	Also give Indirect Extrusion	opposite to Hot	
21/10/22	Impact Extrusion	Drop/Impact Extrusion	Drop forging	
	class Test	Yes	10 marks Test	
28/10/22	Discussion	Yes	Discussed Previous Topics	
29/10/22	Rolling process	Rolling Mill	Rolling Mill	
31/10/22	Types of Rolling	2-High 3-High	Types of Mill	
01/11/22	Two-High Mill	✓	Two rollers	
4/11/22	3-High Mill	Yes	Adv. Types	
5/11/22	Tandem mill	Yes	Advance types	
7/11/22	Extrusion and Rolling	Differentiate	Differentiate	

Subject: PT No. of Days/per week class allotted 04

Semester From Date : 15-9-2022 To Date : 21-01-2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
11/11/22	casting	casting	Porcing, melt on metal	<u>bsah</u>
12/11/22	Types of casting	Types	Types	<u>bsah</u>
14/11/22	Moulding Sand	Preparation of moulding Sand	Sand, Silica, clay	<u>bsah</u>
15/11/22	Types of moulding	Types	Facing Parting	<u>bsah</u>
19/11/22	Properties of Moulding Sand	Properties	Porosity, Refractoriness, Cohesiveness	<u>bsah</u>
21/11/22	Composition of Moulding	Composition	Adhesiveness, Flowability	<u>bsah</u>
22/11/22	Patterens	Patterens	Replica	<u>bsah</u>
25/11/22	Types of Patterens	Types	Loose pc, Single pc, Two piece	<u>bsah</u>
26/11/22	Classification of core	CORE for Hollow	Middle	<u>bsah</u>
28/11/22	Copula Furroace	Copula	Stack zone, Combustion zone	<u>bsah</u>


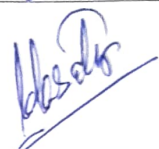
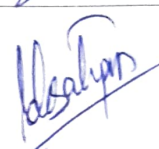
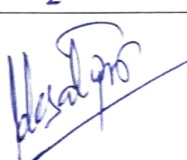


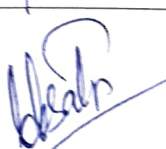
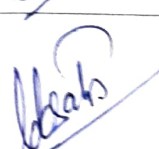
Subject: PT No. of Days/per week class allotted 04

Semester From Date : 15.9.2022 To Date : 21.1.2023 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
2/12/22	zones	zones	Tyure zone	<i>[Signature]</i>
3/12/22	Die casting	Die casting	Pressure die and gravity	<i>[Signature]</i>
5/12/22	Centrifugal Casting	Centrifugal	Gun based	<i>[Signature]</i>
6/12/22	Adv and Disadv	Adv and disadv.	Gun G.I.	<i>[Signature]</i>
9/12/22	Application	Application	Centenour Gun, Gas tank	<i>[Signature]</i>
13/12/22	Casting Defects	Deflects	Types. Blow holes	<i>[Signature]</i>
16/12/22	Welding	Welding	weld pool electrode	<i>[Signature]</i>
17/12/22	Are welding	Are-welding	Temp.	<i>[Signature]</i>
19/12/22	classification	classification	Types	<i>[Signature]</i>
23/12/22	Gas welding	Gas welding process	oxygen gas Acetylen gas	<i>[Signature]</i>

Subject: PT No. of Days/per week class allotted 04

Semester From Date: 15-9-2022 To Date: 21/1/2023 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
26/12/22	Flames	Flames	Neutral carburised oxidising	
27/12/22	Description of Gas Welding	Description	All sets	
30/12/22	Electrodes	Electrodes	Barce Non-Barce	
2/1/23	Resistance welding	Resistance	Spot Seam Butt	
7/1/23	TIG	TIG	Tungsten Argon gas	
9/1/23	MIG	MIG	Metal Argon Gas.	
10/1/23	Welding Defects	Deflects	Types of Deflects	
11/1/23	Powder Metallurgy	PW	Bleeding Sintering	
11/1/23	Sintering (PM)	Sintering	Compact in Ina cavity furnace	