

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN Session-2023-2024

Discipline: Mechanical Engg. Semester: 3rd

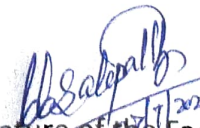
Subject: Production Technology

Name of the Teaching Faculty: Dr. Bharat Bhusan Satapathy

Subject: Production Technology No. of Days/per week class allotted 01

Semester From Date : 01-08-2023 To Date : 30-11-2023 No. of Weeks : 15

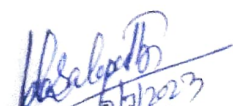
Week	Class Day	Theory /Practical Topics
	01	Basic Production Processes.
	02	Idea About Castings.
	03	Idea About Weldings / Extension
	04	Idea About Jigs & Fixture.
	05	Idea About Rolling Mill & Sintering.
	06	Castings.
	07	Diagram Description, Cope/Dray.
	08	Moulding Sand /Types of Sand.
	09	Moulding Sand Preparation.
	10	Properties of moulding sand.
	11	Gate /riser etc.
	12	Different Types of Pattern


Signature of the Faculty

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

Semester From Date : 01.8.2023 To Date : 30.11.2023 No. of Weeks : 15


Week	Class Day	Theory /Practical Topics
	11	Pattern Allowances, Shrinkage, Draft
	14	Slake, Machining allowances.
	15	Pressure Die Casting Die Casting, Gravity Die Casting
	16	Class Test of Casting Chapter
	17	Discussion, Previous topics & Doubt.
	18	Cupola Furnace (Diagram with zones)
	19	Applications & Limitations -
	20	Centrifugal Casting.
	21	Casting Defects
	22	Discussion on Last Chapter (Casting)
	23	Metal Forming Processes.
	24	Above Recrystallisation Temp below " "


Signature of the Faculty

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

Semester From Date : 1-8-2023 To Date : 30-11-2023 No. of Weeks : 15

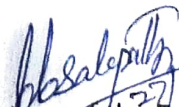
Week	Class Day	Theory /Practical Topics
	25	Extrusion to Defination, Classification
	26	Direct Extrusion, Impact Extrusion
	27	Indirect Extrusion.
	28	Def ⁿ of Rolling Mill
	29	Types of Rolling mill
	30	Two High mill, Three High mill
	31	Tandem Mill . Back-up roll.
	32	Class test (Surprise test)
	33	Inter-action class of previous topic Dis. class
	34	Introduction — WELDING.
	35	Idea about Arc welding / Gas welding
	36	Different TYPES of Welding Process


Signature of the Faculty

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

Semester From Date : 1.8.2023 To Date : 30.11.2023 No. of Weeks : 15

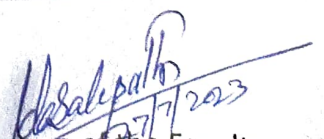
Week	Class Day	Theory /Practical Topics
	37	Types of Electrode (welding Rod)
	38	Coated Electrode / Non-Coated Electrode
	39	Fluxes used in welding process.
	40	Gas welding & Types of flames.
	41	Neutral, Oxy, Carb ----
	42	Oxygen & Acetylen gases.
	43	Arrangement of Gas welding process.
	44	Diagram of Arc welding / post.
	45	Resistance welding & Types.
	46	Projection / spot / seam / flash / Bead etc
	47	Difference b/w TIG & MIG.
	48	welding Defects.


Signature of the Faculty
27/11/2023

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

Semester From Date : 1.8.2023 To Date : 30.11.2023 No. of Weeks : 15

Week	Class Day	Theory / Practical Topics
	49	Powder Metallurgy Process / Sintering
	50	Adv. of Powder Metallurgy Technique.
	51	Economics of Powder Metallurgy.
	52	Press work / Blanking / Boreing
	53	Trimming etc
	54	Inter Action / video. Clippings.
	55	Die / Punch / Simple die / Progressive Die Compound die / Adv. of Dies.
	56	JIGS & FIXTURES.
	57	Advantages / — JIGS / Fixtures.
	58	Location 3-2-1 - P.D.
	59	Arrangement of JIGS. Various types of Jigs & Fixtures.
	60	Discussion.


Signature of the Faculty
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