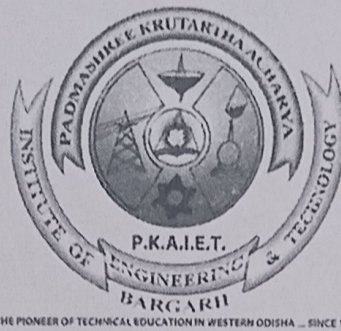


PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF
ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN
Session-2024-2025

Semester: 6th Discipline: Metallurgical Engg.

Subject: Foundary Technology (FT)

Name of the Teaching Faculty: Santosh Panda

Subject: FTNo. of Days/per week class allotted: 05Semester From Date: 4-2-25To Date: 17-5-25No. of Weeks: 12

Week	Class Day	Theory / Practical Topics
1	1	Defination of Casting
	2	Steps involve in Casting
	3	Adv. & Disadv. of Casting
	4	Defination of Patteren
	5	Diff. between pattern & Allowance
2	1	Pattern Allowance
	2	storing & preservation of pattern
	3	Moulding sand
	4	Types of moulding sand
	5	Properties of moulding sand
3	1	Racing & Backing sand
	2	sand conditioning

S. Pande
Signature of the Faculty

Subject: FT No. of Days/per week class allotted : 05

Semester From Date : 4-2-25 To Date: 17-5-25 No. of Weeks : 12

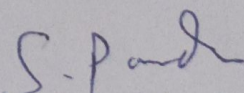
Week	Class Day	Theory /Practical Topics
	3	Sand examination
	4	Testing of moulding sand
	5	Moister content Test
4	1	clay content Test
	2	Hardness Test
	3	AFS grain fineness test
	4	Binders function
	5	Types of binders
5	1	Additives and its types
	2	Function of special Additives
	3	Introduction of Core
	4	Steps of core making

S. Panda
Signature of the Faculty

Subject: FT No. of Days/per week class allotted: 05

Semester From Date: 4-2-25 To Date: 17-5-25 No. of Weeks: 12

Week	Class Day	Theory / Practical Topics
	5	Methods of Core Baking
6	1	Core Baking machine
	2	Mould characteristics
	3	Types of mould
	4	Various moulding methods
	5	Machine moulding.
7	1.	Details of machine moulding.
	2.	Bench moulding
	3.	Floor moulding
	4.	Pit moulding
	5	Pr. yr. Question Practice on this chapter.
8	1.	Investment moulding


Signature of the Faculty

subject: _____

FT

No. of Days/per week class allotted : _____

05

Semester From Date : 4-2-25To Date: 17-5-25No. of Weeks : 12

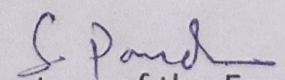
Week	Class Day	Theory / Practical Topics
	2	Methods of Ramming
	3.	Shell moulding process.
	4.	Diff. types of special moulding process
	5.	Furnace & its types.
9.	1	Cupola Furnance
	2	Induction Furnance
	3.	Types of Induction Furnance
	4.	Electric Arc Furnance
	5.	Types of E.A. Furnance
10	1	Advantage of Cupola.
	2.	Limitation of Cupola
	3.	Pr. MC Question Discussion

S. P. Singh
Signature of the Faculty

FT

Subject: _____ No. of Days/per week class allotted: 05
 semester From Date: 4-2-25 To Date: 17-2-25 No. of Weeks: 12

Week	Class Day	Theory /Practical Topics
	4	Gating system
	5	Elements of Gating system
11.	1	Riser function
	2	Types of Riser
	3	Directional solidification
	4.	chills function
	5.	chaplets function
12	1.	cleaning of Casting
	2.	Petting
	3	Core & its cleaning
	4.	Die Casting & its types
	5.	Casting Defect.


 Signature of the Faculty