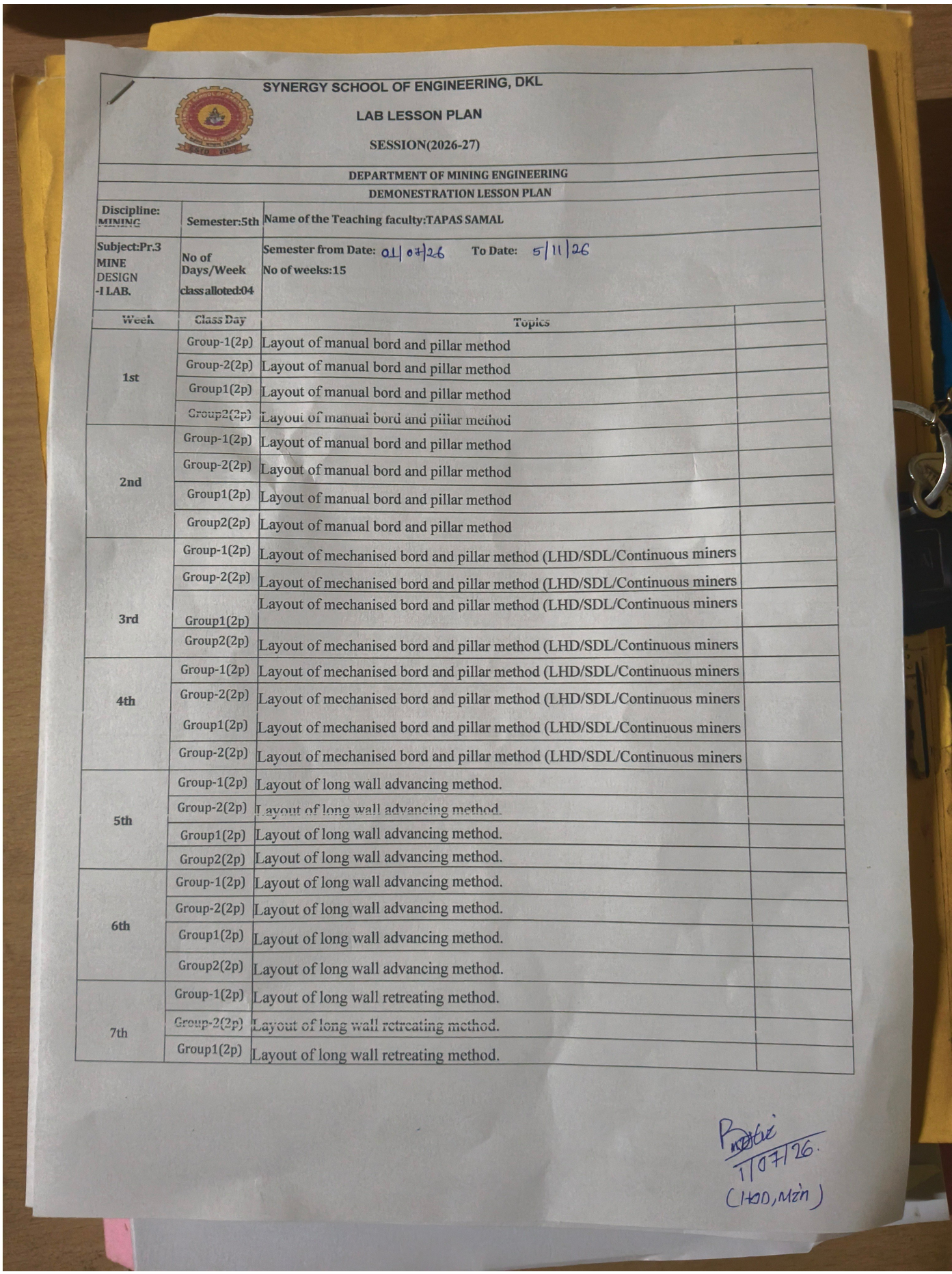


SYNERGY SCHOOL OF ENGINEERING, DKL

LAB LESSON PLAN

SESSION(2026-27)

DEPARTMENT OF MINING ENGINEERING

DEMONESTRATION LESSON PLAN

Discipline: MINING	Semester:5th	Name of the Teaching faculty:TAPAS SAMAL
Subject:Pr.3 MINE DESIGN -I LAB.	No of Days/Week class alloted:04	Semester from Date: 01/07/26 To Date: 5/11/26 No of weeks:15

Week	Class Day	Topics	
1st	Group-1(2p)	Layout of manual bord and pillar method	
	Group-2(2p)	Layout of manual bord and pillar method	
	Group1(2p)	Layout of manual bord and pillar method	
	Group2(2p)	Layout of manual bord and pillar method	
2nd	Group-1(2p)	Layout of manual bord and pillar method	
	Group-2(2p)	Layout of manual bord and pillar method	
	Group1(2p)	Layout of manual bord and pillar method	
	Group2(2p)	Layout of manual bord and pillar method	
3rd	Group-1(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
	Group-2(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
	Group1(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
	Group2(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
4th	Group-1(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
	Group-2(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
	Group1(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
	Group-2(2p)	Layout of mechanised bord and pillar method (LHD/SDL/Continuous miners	
5th	Group-1(2p)	Layout of long wall advancing method.	
	Group-2(2p)	Layout of long wall advancing method.	
	Group1(2p)	Layout of long wall advancing method.	
	Group2(2p)	Layout of long wall advancing method.	
6th	Group-1(2p)	Layout of long wall advancing method.	
	Group-2(2p)	Layout of long wall advancing method.	
	Group1(2p)	Layout of long wall advancing method.	
	Group2(2p)	Layout of long wall advancing method.	
7th	Group-1(2p)	Layout of long wall retreating method.	
	Group-2(2p)	Layout of long wall retreating method.	
	Group1(2p)	Layout of long wall retreating method.	

Principal
1/07/26.
(HOD, Mtn)

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8th	Group2(2p)	Layout of long wall retreating method.
	Group-1(2p)	Layout of long wall retreating method.
	Group-2(2p)	Layout of long wall retreating method.
	Group1(2p)	Layout of long wall retreating method.
	Group2(2p)	Layout of long wall retreating method.
9th	Group-1(2p)	Layout of shovel-dumper combination.
	Group-2(2p)	Layout of shovel-dumper combination.
	Group1(2p)	Layout of shovel-dumper combination.
	Group2(2p)	Layout of shovel-dumper combination.
10th	Group-1(2p)	Layout of shovel-dumper combination.
	Group-2(2p)	Layout of shovel-dumper combination.
	Group1(2p)	Layout of shovel-dumper combination.
	Group2(2p)	Layout of shovel-dumper combination.
11th	Group-1(2p)	Formation of benches in open cast mines as per coal mine regulations.
	Group-2(2p)	Formation of benches in open cast mines as per coal mine regulations.
	Group1(2p)	Formation of benches in open cast mines as per coal mine regulations.
	Group2(2p)	Formation of benches in open cast mines as per coal mine regulations.
12th	Group-1(2p)	Pit top and Pit bottom layout of u/g coal mine.
	Group-2(2p)	Pit top and Pit bottom layout of u/g coal mine.
	Group1(2p)	Pit top and Pit bottom layout of u/g coal mine.
	Group2(2p)	Pit top and Pit bottom layout of u/g coal mine.
13th	Group-1(2p)	Pit top and bottom layout of u/g metal mine
	Group-2(2p)	Pit top and bottom layout of u/g metal mine
	Group1(2p)	Pit top and bottom layout of u/g metal mine
	Group2(2p)	Pit top and bottom layout of u/g metal mine
14th	Group-1(2p)	Manpower calculation and OMS in assumed mine.
	Group-2(2p)	Manpower calculation and OMS in assumed mine.
	Group1(2p)	Manpower calculation and OMS in assumed mine.
	Group2(2p)	Manpower calculation and OMS in assumed mine.
15th	Group-1(2p)	Design of Haul roads
	Group-2(2p)	Design of Haul roads
	Group1(2p)	Design of Haul roads
	Group2(2p)	Design of Haul roads

Signature of faculty

PRINCIPAL
Synergy School of Engineering
Dhankanal

signature of HOD

HOD
Mining Engg. Dept.
SSE,Dhenkanal

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