LESSON PLAN-4TH SEMESTER (2021)				
SUBJECT:**PHYSICAL METALLURGY**				
NAME OF THE FACULTY: **ARABINDA NAYAK**				
MONTH	**MODULE/UNIT**	**COURSE TO BE COVERED**	**CLASSES REQUIRED**	**AFTER COMPLETION OF THE UNIT , STUDENTS WILL HAVE A KNOWLEDGE ABOUT**
APRIL	**UNIT-1**	**Crystal Structure of metals**	10	SYMMETRY,CRYSTAL SYSTEMS ,MILLER INDICES OF CRYSTALLOGRAPHIC PLANES AND DIRECTIONS
	UNIT-2	**Solidification of pure metals & alloys**	10	NUCLEATION AND GROWH MECHANISMS
MAY	**UNIT-3**	**Equilibrium Diagram**	20	TYPES , USES AND CONSTRUCTION OF DIFFERENT TYPES OF PHASE DIAGRAMS
JUNE	**UNIT-4**	**Solid solution**	12	SUBSTITUTIONAL AND INTERSTITIAL SOLID SOLUTIONS
	UNIT-5	**Cast iron**	15	PROPERTIES ,MICROSTRUCTURE AND APPLICATION OF CAST IRONS
JULY	**UNIT-6**	**Metallurgical Microscope** .	8	METALLURGICAL MICROSCOPE, METALLOGRAPHIC TECHNIQUES