ENGINEERING		SEMECTER		LESSON PLAN			
	DISCIPLINE - METALLURGICAL ENGINEERING		SEMESTER - 5th spinisher				
SUBJECT - FERROUS METALLURGY II				NAME OF THE TEACHING			
				FACULTY- BICHITRA			
		NO OF DAYS/ WE	EK CLASS ALLOTED-0	KUMAR SAHOO			
MONTH	WEEK			概念と言語を含むない。これは、これがなるというとしている。			
		NO.OF	CLASS DAY	01-08-23 TO 30-11-23 THEORY TOPIC			
		PERIODS		THEORY TOPIC			
	lst	AVAILABLE 02P					
		021	07-08-23	1.1 Introduction and History			
				of steel making			
			08-08-23	1.2 Blister steel making			
	2nd		The way seems	Routes of steel making			
		04P	10-08-23	1.3 shear steel making			
			11-08-23	1.4 Describe crucible steel			
				making			
			14-08-23	1.5 describe open hearth			
				furnace			
			17-08-23	2.1 Mention different			
				reaction involved in steel			
SI				making			
AUGUST	3rd	04P	18-08-23	2.2 Differentiate between			
5				acid process & basic process			
<				of steel making			
			21-08-23	2.3 Explain the principles			
				and conditions required in			
				removal of P, S, Si in steel			
				making			
			22-08-23	2.3 Explain the principles			
				and conditions required in			
				removal of P, S, Si in steel			
	1		24.00.00	making			
		4.	24-08-23	3.1 State the different raw			
				materials required for steel			
		04P	25-08-23	making			
	4th	1041	23-08-23	3.2 State the important raw materials available in			
				India			
			28-08-23	Revision			
			29-08-23	4.1 Give different raw			
			27,0025	materials of LD process			
			31-08-23	4.2 Explain the construction			
SEPTEMBER				and operation of LD			
				converter			
	5th	04P	01-09-23	4.3 Describe the refining			
				reaction in LD converter			
				with reference to			
				decarburization and			
				dephosphorisation			
			04-09-23	4.4 Mention the quality of steel and composition of			
				slag in LD process			
			05-09-23	4.6 Describe top blowing			
			05-09-25	process KALDO AND ROTOR			
				PROCESS			
			07-09-23	4.6 Describe bottom			
				blowing process OBM, LWS			
SI		S. T. C. San		PROCESS			

40.5 (1.75)	6th	0411	DAU			
			08-09-23	4.6 Explain combined blowing process LD-		
			- New York and a section of the property of the section of the sec	KG, LDAC process		
			11-09-23	4.7 explain OLP process		
			12.09.23	5.1 Explain the principles and construction of electric arc furnace		
			14-09-23	5.2 Explain the operational steps and types of slag prepared by electric arc furnace		
	7th	04P	15-09-23	5.3 Mention advantages of EAF process		
			18-09-23	5.4 Explain the steel making induction furnace		
			21-09-23	5.5 Explain advantages andlimitations of induction furnace		
			22-09-23	6.1 describe the principle of operation, merits arid demerits of Ajax Process		
	Sth	04P	25-09-23	6.1 describe the principle of operation, merits arid demerits of spray steel making		
			26-09-23	7.1 Deoxidation of liquid steel; deoxidation practice		
			28-09-23	7.1 Different de-oxidizers and their uses		
			03-10-23	7.2 Differentiate between killed steel, semi-killed steel and rimming steel		
	9th	04P	05-10-23	8.1 Describe different typesof teeming methods; direct pouring Tundish teeming and Bottom teeming and Bottom teeming.		
			06-10-23	8.2 Ingot moulds: Mould material, hot top, bottomplate, Mould life, Mould preparation		
			09-10-23	THOUSE PROPERTY.		
			10-10-23	CLASS TEST		
	10th	04P	13-10-23	9.1Explain the principle and operation of continuouscasting		
OCTOBER			16-10-23	9.2 Describe different types of casters vertical caster		
			17-10-23	9.3 Continuous casting of Billets, Blooms and Slabs		



	11th			moulds and mould maintenance in continuous casting
		-04P	20-10-23	9.5 Discuss advantages of continuous casting
			31-10-23	9.6 Continuous casting of Billets, Blooms and Slabs.
			02-11-23	Doubt clear class
			03-11-23	9.7Explain the principle and operation of continuous casting
	12th	04P	06-11-23	10.1 objective of Secondary steel making
			07-11-23	10.2 Describe advantages of secondary steel making
			09-11-23	10.3 Explain the principle operation and advantages of secondary steel making VAD
			10-11-23	10.4 Describe different ingotdefects, their causes and remedies
	13th	04P	13-11-23	10.5 Describe AOD process
			14-11-23	10.6 Describe VOD process
NOVEMBER			16-11-23	11.1 Describe stream degassing process
			17-11-23	11.2 Describe circulation degassing
	14th	04P	20-11-23	11.3 Describe different ingot defects, their causes and remedies
			21-11-23	11.4 Describe stream degassing process
			23-11-23 24-11-23	Doubt clearing Class
	15th	02P	28-11-23 30-11-23	Revisions

PREPARED BY BICHITRA KUMAR SAHOO HOD METALLURGY ENGINEERING OSME, KEONJHAR PRINCIPAL OSME, KEONJHAR