Discipline: Metallurgy		Semester:	Name of the Teaching Faculty:
2.50.p.m.c. Wictandigy		<b>4</b> th	Mr Subrat Kumar Behera, Lecturer
		semester	Wil Subrut Rumar Benera, Eccturer
			Consider Constitution Parks and account of the
Subject: Ex		No of days	Semester from Date: 10-03-2022 to 10-06-2022
Metallurgy		/week	No Of Weeks 45
Sub code- TH 3		class	No. Of Weeks :15
		allotted:04	
Month	week	Class Day	Theory topics
MAR	3rd	1 <sup>st</sup>	Explain drying
			Define and explain calcilnation
		2 <sup>nd</sup>	Explain different agglomeration process
		3rd	Explain different agglomeration process
		4th	Explain different agglomeration process
	4 <sup>th</sup>	1 <sup>st</sup>	Pyrometallurgical processes
		2 <sup>nd</sup>	Pyrometallurgical processes
		3rd	Pyrometallurgical processes
		4th	Explain roasting and different roasting methods
	5 <sup>th</sup>	1 <sup>st</sup>	Explain Ellingham diagram
		2 <sup>nd</sup>	Explain smelting and different smelting practices
		3rd	Explain the method of distillation and sublimation
	1 <sup>st</sup>	1 <sup>st</sup>	Explain hydrometallurgical process
	2nd	1 <sup>st</sup>	flow diagram of hydrometallurgical extraction
		2 <sup>nd</sup>	Explain leaching and different leaching methods
		3 <sup>rd</sup>	Electrometallurgical process
		4 <sup>th</sup>	Electrometallurgical process
	3rd	1 <sup>st</sup>	Electrometallurgical process
		2 <sup>nd</sup>	Define electrolysis, ionic conductivity, EMF series, faraday's
			law of electrolysis
APRIL		3 <sup>rd</sup>	Define electrolysis, ionic conductivity, EMF series, faraday's
741412		th	law of electrolysis
	-th	4 <sup>th</sup>	Explain electro wining, electro refining
	4 <sup>th</sup>	1st	Explain refining, process
		2nd	Explain refining, process
		3rd	zone refining, fire refining
	_th	4th	Explain principles of metallurgical thermodynamics
	5 <sup>th</sup>	1st	Revision
		2nd	Explain principles of metallurgical thermodynamics
		3rd	Explain principles of metallurgical thermodynamics
		4th	Explain principles of metallurgical thermodynamics
	1st	1 <sup>st</sup>	Explain principles of metallurgical thermodynamics
	2nd	1st	Explain principles of metallurgical thermodynamics
MAY		2 <sup>nd</sup>	Explain principles of metallurgical thermodynamics
		3rd	zeroth law of thermodynamics
		4th	1st, 2nd, and 3rd law of thermodynamics
	3rd	1 <sup>st</sup>	1st, 2nd, and 3rd law of thermodynamics
		2 <sup>nd</sup>	1st, 2nd, and 3rd law of thermodynamics
		3 <sup>rd</sup>	Explain on details the concept of Internal Energy, enthalpy,
			entropy and entropy change, Free energy of a chemical

			reaction
		4th	Explain on details the concept of Internal Energy, enthalpy,
			entropy and entropy change, Free energy of a chemical reaction
	4th	1 <sup>st</sup>	Explain on details the concept of Internal Energy, enthalpy, entropy and entropy change, Free energy of a chemical reaction
		2 <sup>nd</sup>	Explain on details the concept of Internal Energy, enthalpy, entropy and entropy change, Free energy of a chemical reaction
		3 <sup>rd</sup>	Explain on details the concept of Internal Energy, enthalpy, entropy and entropy change, Free energy of a chemical reaction
		4 <sup>th</sup>	Explain on details the concept of Internal Energy, enthalpy, entropy and entropy change, Free energy of a chemical reaction
	5th	1 <sup>st</sup>	Revision
		2 <sup>nd</sup>	Revision
JUNE	1st	1 <sup>st</sup>	Explain on details the concept of Internal Energy, enthalpy, entropy and entropy change, Free energy of a chemical reaction
		2 <sup>nd</sup>	Explain on details the concept of Internal Energy, enthalpy, entropy and entropy change, Free energy of a chemical reaction
		3 <sup>rd</sup>	Explain on details the concept of Internal Energy, enthalpy, entropy and entropy change, Free energy of a chemical reaction
		4 <sup>th</sup>	Henry's law and Sivert's Law
	2nd	1 <sup>st</sup>	Explain first order reaction and its significance
		2 <sup>nd</sup>	Revision
		3 <sup>rd</sup>	Revision
		4 <sup>th</sup>	Revision