DISCIPLINE: CHEMICAL	Semester:-5 [™]	NAME OF THE TEACHING FACULTY RAJESH KUMAR DUTTA
Week	Class/ Day	Theory/ Practical Topics
1 st	1 st	Define Humidification
	2 nd	Wet and dry bulb temperature
	3 rd	Principle of wet blub temperature theory
	4 th	Illustrate humidity chart
2 ND	1 st	Explain different methods of measuremen
		of Humidity
	2 nd	Explain different methods of measuremen
	_	of Humidity
	3 rd	Different methods of humidification
	4 th	Different methods of dehumidification
	1 st	The construction and working of natural
	-	and mechanical draft cooling tower
	2 nd	The construction and working of natural
	L	and mechanical draft cooling tower
	3 rd	The construction and working of natural
3 rd	5	and mechanical draft cooling tower
	4 th	The construction and working of natural
	4	and mechanical draft cooling tower
4 th 5 th	1 st	
	L L	The construction and working of natural and mechanical draft cooling tower
	2 nd	
	2 3 rd	Solve simple problems on Humidification
	4 th	Define drying
		Equilibrium moisture curve
	1 st	Equilibrium moisture curve
	2 nd	Moisture content-equilibrium, unbound,
	3 rd	free moisture
	3''	Moisture content-equilibrium, unbound,
	ath	free moisture
	4 th	The methods of removing liquids from
	ct	solids
6 th	1 st	Illustrate constant rate and falling rate
	and	period (simple problems)
	2 nd	Illustrate constant rate and falling rate
	- rd	period (simple problems)
	3 rd	Illustrate constant rate and falling ra
	4 th	period (simple problems)
	4	Construction and working principle of tra
	1 st	dryer Construction and working principle
7 th	1	Construction and working principle rotary dryer

	2 nd	Construction and working principle of
	_	spray dryer
	3 rd	Construction and working principle of
		tunnel dryer
	4 th	Construction and working principle of
		flash dryer
8 th	1 st	Construction and working principle of
		fluidized bed dryer
	2 nd	Dryer for heat sensitive materials
	3 rd	Visual representation of different types of
		dryers
	4 th	Visual representation of different types of
		dryers
9 th	1 st	Solve simple problems on Drying
	2 nd	Solve simple problems on Drying
	3 rd	Liquid extraction and leaching
	4 th	Different types of extraction
10 th	1 st	Principle of solid liquid extraction
	2 nd	Batch and continuous leaching
	3 rd	Batch and continuous leaching
	4 th	Solid-Liquid extraction equipment
	1 st	Solid-Liquid extraction equipment
a a th	2 nd	Solid-Liquid extraction equipment
11 th	3 rd	Solid-Liquid extraction equipment
	4 th	Principle of liquid-liquid extraction
	1 st	Parameter in choice of solvent for liquid-
		liquid extraction
	2 nd	Construction and working principle of
12 th		liquid-liquid extraction equipment
12	3 rd	Construction and working principle of
		liquid-liquid extraction equipment
	4 th	Construction and working principle of
		liquid-liquid extraction equipment
13 th	1 st	Solve simple problems on extraction
	2 nd	Solve simple problems on extraction
	3 rd	Solve simple problems on extraction
	4 th	Objective questions on Extraction
14 TH	1 st	Objective questions on Extraction
	2 nd	Define crystallization
	3 rd	Principle of crystallization
	4 th	Principle of crystallization
15 [™]	1 st	Construction and working of different
		types of batch and continuous crystallizer
	2 nd	Construction and working of different
		types of batch and continuous crystallizer
	3 rd	Solve simple problems on Crystallization
	4 th	Objective questions on Crystallization