# DEPARTMENT OF CHEMICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

		COURSE PLAN	- PART I			
Course Title	MAS	S TRANSFER LAB				
Course Code	CLL	R16	No. of Credits	2		
Course Code of Pre- requisite subject(s)	CLP	C 20, CLPC 24				
Session	July 2018  Dr.K.M.Meera S.Begum Dr.M.Matheswaran  meera@nitt.edu matheswaran@nitt.edu		Section (if, applicable)	NA Chemical Engineering 0431-250 3109, 3120		
Name of Faculty			Department			
Email			Telephone No.			
Name of Course Coordinator(s) (if, applicable)	NA					
E-mail	NA			Telephone No.		
Course Type		Core course	Elective cour	se	ELR	
		经通知的企业				
Syllabus (approved in	BoS)					
Experiments on						
1. Diffusion studies						
2. Wetted wall Tower						
3. Simple Distillation						
4. Steam Distillation						
5. Surface Evaporation						
6. Air Drying						
7. Vacuum Drying						
8. Leaching						
9. Batch Adsorption						
10. Recirculating Humidi	fier					
COURSE OBJECTIVES	3					
To provide the practical ex	cposur	e for applying the con	cepts of mass transfer	operati	ions and estimate the	
mass transfer design paran						
COURSE OUTCOMES	(CO)					
CO1 : the students must	be al	ble to verify the basi	cs learnt in the theo	ry and	apply those	
concepts.						
CO2: To interpret the d	lata co	ollected in the labora	atory and evaluate t	he perfo	ormance of mass	
transfer equipments.		Yawa Zana				
Course Outcomes	Alig	gned Programme C	outcomes (PO)			
1. CO 1	1,2, 4, 5, 8, 9, 10, 11 and 12					
2. CO 2	1,2	, 3, 4, 5, 6, 8, 9, 10,	11 and 12			
					Page 1 of 3	

S.No.	Week/Contact Hours		Topic				Mode of Delivery	
1.	1 <sup>st</sup> week	THE PROPERTY OF THE PARTY OF TH	tion of Dif Air and Ma in Air	Experiment				
2.	2 <sup>nd</sup> week		tion of Mass ted wall colu	Experiment				
3.	3 <sup>rd</sup> week	Verification Simple dis	on of Rayleis	Experiment				
4.	4 <sup>th</sup> week		in Steam Di	Experiment				
5.	5 <sup>th</sup> week		tion of Ma Evaporation	Experiment				
6.	6 <sup>th</sup> week		n Air drying aracteristics	Experiment				
7.	7 <sup>th</sup> week	Studies Determina	on Vac	Experiment				
8.	8 <sup>th</sup> week	Determina Leaching	ation of Stag	Experiment				
9.	9 <sup>th</sup> week	Verification isotherm	on of Freun	Experiment				
10.	10 <sup>th</sup> week	Recirculat	ting Humidi	Demonstration				
COUR	SE ASSESSMENT	METHOD	S (shall ran	ge from 4 to	6)			
S.No.	Mode of Asse		Week/Date Durat		ion	% Weightage		
1.	Observation, ca and Record in L	ab classes	each class			hours/class 70		
2.	Final assessment Test	-Objective	course	end of the	60 minui	tes	20	
3.	Final assessment	-Viva	At the course	end of the	10 minut	tes	10	
Esses	ntial readings: Te	xtbooks, R	teference b	ooks etc.,				
	Laboratory manu							
	SE EXIT SURVEY	(mention t	the ways in	which the f	eedback al	oout th	ne course sha	

COURSE POLICY (preferred mode of correspondence with students, policy on attendance, compensation assessment, , academic honesty and plagiarism etc.)

## MODE OF CORRESPONDENCE (email/ phone etc):

Faculty may be contacted by email.

## **ATTENDANCE**

- > 75% attendance is mandatory.
- > A maximum of 10% shall be allowed under On Duty (OD) category.
- > Students with less than 65% of attendance shall be prevented from attending the final assessment and shall be awarded 'V' grade.

# **COMPENSATION ASSESSMENT**

Those who are absent during the course on genuine (medical and official only) grounds will be allowed to redo upto TWO experiments.

## **ACADEMIC HONESTY & PLAGIARISM**

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during final assessment will be treated as punishable dishonesty.
- > Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee constituted with the faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.
- > The policy against academic dishonesty shall be applicable for the current batches also.

#### ADDITIONAL INFORMATION

Breakage of glasswares to be replaced by the respective students.

### FOR APPROVAL

Course Faculty: 1.

(Dr.K.M.Meera S.Begum)

(Dr M Matheewaran )

CC-Chairperson:

(Dr.T.Sivashankar)

HOD:

(Dr.P.Sivashanmugam)