DEPARTMENT OF CHEMICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-620015

	COURSE PLAI	N - PART I	
Course Title	Chemical Reaction Eng	gineering lab	Tet. Poleos to
Course Code	CLLR 15 No. of Credits 2		2
Course Code of Pre- requisite subject(s)			
Session	July/ Jan. 2018	Section (if, applicable)	A/B
Name of Faculty	Dr.P.Sivashanmugam Dr.N.Samsudeen	Department	Chemical Engineering
Email	psiva@nitt.edu	Telephone No.	09442115384
Name of Course Coordinator(s) (if, applicable)	Not Applicable		Red of province
E-mail	Company	Telephone No.	
Course Type	√ Core course	Elective co	ourse
Syllabus (approved in	PoS)		
2. Batch reactor —I 3. Batch reactor —II 4. Mixed Flow Reactor	The 19259 (shall cand) sees official Week		
6. Mixed Flow Reactor	in series		
Plug Flow Reactor			
Tag How Reactor			
	followed by Plug Flow Rea	actor	
. Mixed Flow Reactor		actor	
	ed Flow Reactor	actor	
7. Mixed Flow Reactor 3. RTD studies in Mixe	ed Flow Reactor Flow Reactor	actor	and the Latter Leave of Latter

To provide experience on experimentally finding activation energy and kinetics of particular chemical reaction, evaluation of performance of single and multiples reactors and evaluation of performance of non-ideal reactors

COURSE OUTCOMES (CO)	COL ST ECUIO UND
Course Outcomes	Aligned Programme Outcomes (PO)
able to verify the basis learnt in theory on finding activation energy and finding kinetics of particular chemical reaction,	ar finality on
evaluation of performance of single and multiples reactors and evaluation of performance of non-ideal reactors	PO1, PO2,PO5 to PO12

COURSE PLAN – PART II

COURSE OVERVIEW

To provide experience on experimentally finding activation energy and kinetics of particular chemical reaction, evaluation of performance of single and multiples reactors and evaluation of performance of non-ideal reactors

COURSE TEACHING AND LEARNING ACTIVITIES

S.No. Week/Contact				
Hours	Topic	Mode of Delivery		
			The second second	IIIUIIS

The whole class strength is divided into two batches and each is divided into 9 batches with three or four members in each batch. Experiments will be conducted in every week for 9 weeks to complete all experiments and two more class will be allocated for redo experiments

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

		onan range nom 4	10 0)	
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Continuous Assesement will be	done for all experim	ents with weight	age of 50%
2	Compensation Assessment*	Redo classes will be or not did the expe	pe conducted for riments properly	who were absent

*mandatory; refer to guidelines on page 4

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

Couse exit survey may be conducted at end of the end of the course. Beside this students feedback during class committee meeting before first and second assessment will be considered in a positive way and delivered in a corrective way

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

MODE OF CORRESPONDENCE (email/ phone etc) Email :psiva@nitt.edu, cell :9442115394

ATTENDANCE

Attendance of 75% and above is expected. The 25% allowance is given for absence due to illness/institute related activities (sports/competitions/seminars etc)

COMPENSATION ASSESSMENT

Redo classes will be conducted for who were absent or not did the experiments properly

ACADEMIC HONESTY & PLAGIARISM

In the examination no modern gadgets like smart cell phone are allowed. Severe action will be taken against those found indulge in doing mal-practice of any form

ADDITIONAL INFORMATION	Nil	
FOR APPROVAL		
(Dr. G. S. S. Shamu gus)		Mushin
Course Faculty	CC-Chairperson	HOD
(N. SAMSUDEEN)	CD4-K-N-Shee	