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

	COURSE PLA	N - PART I		
Course Title	Chemical Reaction En	gineering lab		
Course Code	CLLR15	No. of Credits	2	
Course Code of Pre- requisite subject(s)	and the second administration	hears de arriv	is as as as as	
Session	July/ Jan. 2019	Section (if, applicable)	ne salahin Manarahin palaman	
Name of Faculty	Dr.P.Sivashanmugam Dr.K.Muthukumar	Department	Chemical Engineering	
Email	psiva@nitt.edu	Telephone No.		
Name of Course Coordinator(s) (if, applicable)	Dr.K. M.Meera S Begur	n manage to digital	to punio cliana esti Stream rest re estici secondo simplica el	
E-mail	meera@nitt.edu	Telephone No.	9489066230	
Course Type	√ Core course	Elective co	ourse	
<ol> <li>Batch reactor –I</li> <li>Batch reactor –II</li> <li>Mixed Flow Reactor</li> <li>Mixed Flow Reactor</li> <li>Plug Flow Reactor</li> <li>Mixed Flow Reactor</li> <li>Mixed Flow Reactor</li> <li>RTD studies in Mixed</li> <li>RTD studies in Plug</li> </ol>	r in series r followed by Plug Flow l ed Flow Reactor	Reactor	estrectrical F  Alench Constitution  The translation of the second constitution  I the second constitution of the second constitu	
COURSE OBJECTIVES		and house of the souls	Uses on go 1946	
particular chemical r	e on experimentally fine eaction, evaluation of on of performance of nor	performance of	energy and kinetics of single and multiples	
COURSE OUTCOMES (	(CO)		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
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, 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	THE RESIDENCE OF THE PARTY OF T	
S.140.	week/Contact	Topic	Mode of Delivery
100	Hours		mode of Delivery

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)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Continuous Assesement will be	done for all experim	nents with weight	age of 50%
2	Compensation Assessment*	Redo classes will be conducted for who were absent or not did the experiments properly		
3	Final Assessment *	Final Assesement will be conducted for three hours with experiments and objective type questions with 50% weightage  age 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

### **ATTENDANCE**

At least 75% attendance in each course 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 writing the final assessment and shall be awarded 'V' grade.

# **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**

The passing minimum shall be as per the regulations.

(Peak/3) or (Class Average/2) whichever is lower

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Course Faculty	CC-Chairperson	was known
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