

S. N. Patel Institute of Technology & Research Centre, Umrakh

(A Vidyabharti Trust Institution)

BE/Chemical Engineering

Subject Name: Chemical Reaction Engineering-I

Subject Code: 3160506

Sr. No.	Experiment
1	To determine the activation energy of the reaction between sodium thio-
	sulphate and HCl using Arrhenius Equation.
2	To measure the kinetics of a reaction between ethyl acetate and sodium
	hydroxide at room temperature by integral method of analysis.
3	To measure the kinetics of a reaction between ethyl acetate and sodium
	hydroxide at room temperature by differential method of analysis.
4	To measure the kinetics of a reaction between ethyl acetate and sodium
	hydroxide at room temperature by half-life method of analysis.
5	To determine the reaction rate conversion for the given saponification reaction
	of ethyl acetate and NaOH solution in the isothermal batch reactor
6	To study and analyze Residence Time Distribution (RTD) for three tanks in
	series.
7	To determine the conversion in PFR for saponification of ethyl acetate with
	NaOH at ambient condition.
8	RTD studies in a CSTR.
9	To study of a non-catalytic homogenous reaction in a coil type plug flow
	reactor under isothermal condition.

At & Po Baben, Ta: Bardoli, Dist: Surat, Pin: 394601



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BE/Chemical Engineering

Subject Name: Mechanical Operation

Subject Code: 3150502

Sr. No.	Experiment	
1	Jaw Crusher	
2	Roll Mill	A
3	Sieve Shaker	
4	Cyclone Separator	
5	Plate and Frame Filter	7
6	Froth Flotation	
7	Batch Sedimentation	
8	Basket Centrifuge	

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