

Rate processes - Video course

COURSE OUTLINE

- Rate Laws and Effect of Temperature on Reaction Rates
- Theories of Reaction Rates
- Fast Reactions;
- Reactions in Solutions
- Ultrafast processes Reaction Dynamics

COURSE DETAIL

Sl No.	Topic/s	Hours
1	Reaction Rates and Rate Laws	2
2	Effect of Temperature on Reaction Rate	2
3	Complex Reactions	3
4	Theories of Reaction Rates	4
5	Kinetics of Some specific Reactions	5
6	Kinetics of Catalyzed Reactions	4
7	Fast Reactions	4
8	Reactions in Solutions	4
9	Ultrafast processes	4
10	Reaction Dynamics	8

References:

1. Chemical Kinetics and Reaction Dynamics by Paul L. Houston
2. Chemical Kinetics and Dynamics by Jeffrey I. Steinfeld, Joseph S. Francisco, William L. Hase
3. Principles of Chemical Kinetics by James E. House
4. Molecular Reaction Dynamics by Raphael D. Levine



NP-TEL

NPTEL

<http://nptel.iitm.ac.in>

Chemistry and Biochemistry

Pre-requisites:

Introductory Physical Chemistry

Coordinators:

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