

685 NPTEL VIDEO COURSES DETAIL (With Direct Access Link to 26,740 Video Lectures - Updated as on November 29, 2016)

Chemical Engineering

No.	Courses	Coordinators	Institute	Syllabus	PDF	MP3
1	Advanced Chemical Reaction Engineering (PG)	Prof. H.S. Shankar	IIT Bombay	Syllabus	Y	Y
2	Advanced Mathematical Techniques in Chemical Engineering	Prof. S. De	IIT Kharagpur	Syllabus	Y	Y
3	Advanced Numerical Analysis	Prof. Sachin C. Patwardhan	IIT Bombay	Syllabus	N	Y
4	Advanced Process Control	Prof. Sachin C. Patwardhan	IIT Bombay	Syllabus	N	Y
5	Biochemical Engineering	Dr. Saikat Chakraborty,Dr. Rintu Banerjee	IIT Kharagpur	Syllabus	Y	Y
6	Chemical Engineering Principles of CVD Processes	Dr. R. Nagarajan	IIT Madras	Syllabus	N	Y
7	Chemical Engineering Thermodynamics	Prof. M.S. Ananth	IIT Madras	Syllabus	N	Y
8	Chemical Reaction Engineering	Prof. Jayant M Modak	IISc Bangalore	Syllabus	Y	Y
9	Chemical Reaction Engineering 1 (Homogeneous Reactors)	Prof K. Krishnaiah	IIT Madras	Syllabus	N	Y
10	Chemical Reaction Engineering 2 (Heterogeneous Reactors)	Prof K. Krishnaiah	IIT Madras	Syllabus	N	Y
11	Chemical Reaction Engineering II	Prof. A.K. Suresh,Prof. Sanjay M. Mahajani,Prof. Ganesh A. Viswanathan	IIT Bombay	Syllabus	Y	Y
12	Chemical Technology - I	Dr. I.D.Mall	IIT Roorkee	Syllabus	Y	Y
13	Computational Fluid Dynamics	Prof. Sreenivas Jayanti	IIT Madras	Syllabus	Y	Y
14	Computational Techniques	Dr. Niket S.Kaisare	IIT Madras	Syllabus	Y	Y
15	Fluid Mechanics	Dr. V. Shankar	IIT Kanpur	Syllabus	Y	Y
16	Fundamentals of Transport Processes	Prof. V. Kumaran	IISc Bangalore	Syllabus	Y	Y
17	Fundamentals of Transport Processes - II	Prof. V. Kumaran	IISc Bangalore	Syllabus	Y	Y
18	Heterogeneous Catalysis and Catalytic Processes	Dr. K.K. Pant	IIT Delhi	Syllabus	Y	Y
19	Instability and Patterning of Thin Polymer Films	Dr. R. Mukherjee	IIT Kharagpur	Syllabus	Y	Y
20	Mass Transfer II	Prof. Nishith Verma	IIT Kanpur	Syllabus	Y	Y
21	Mass Transfer Operations I	Dr. B. Mandal	IIT Guwahati	Syllabus	Y	Y
22	Mechanical Operations	Prof. Shabina Khanam	IIT Roorkee	Syllabus	N	Y
23	Microscale Transport Processes	Dr. Somnath Ganguly,Prof. S. Dasgupta	IIT Kharagpur	Syllabus	Y	Y
24	Modern Instrumental Methods of Analysis	Dr. J.R. Mudakavi	IISc Bangalore	Syllabus	Y	Y
25	Multiphase Flow	Prof. P.K. Das,Prof. Gargi Das	IIT Kharagpur	Syllabus	Y	Y
26	Multiphase flows:Analytical solutions and Stability Analysis	Prof. S.Pushpavanam	IIT Madras	Syllabus	N	Y
27	NOC:Computational Fluid Dynamics	Prof. Sreenivas Jayanti	IIT Madras	Syllabus	N	Y
28	NOC:Introduction to Process Modeling in Membrane Separation Process	Prof. S. De	IIT Kharagpur	Syllabus	N	Y
29	NOC:Introduction to Statistical Hypothesis Testing	Dr. Arun K.Tangirala	IIT Madras	Syllabus	N	Y
30	NOC:Introduction to Time-Frequency Analysis and Wavelet Transforms	Dr. Arun K.Tangirala	IIT Madras	Syllabus	N	Y
31	NOC:MATLAB Programming for Numerical Computation(Course sponsored	Dr. Niket S.Kaisare	IIT Madras	Syllabus	N	Y
32	NOC:Soft Nano Technology	Dr. R. Mukherjee	IIT Kharagpur	Syllabus	N	Y
33	Novel Separation Processes	Prof. S. De	IIT Kharagpur	Syllabus	Y	Y
34	Particle Characterization (PG)	Dr. R. Nagarajan	IIT Madras	Syllabus	Y	Y
35	Plantwide Control of Chemical Processes	Dr. Nitin Kaistha	IIT Kanpur	Syllabus	Y	Y
36	Process Control and Instrumentation	Dr. D. Sarkar,Dr. A.K. Jana	IIT Kharagpur	Syllabus	Y	Y
37	Process Design Decisions and Project Economics	Dr. Vijay S. Moholkar	IIT Guwahati	Syllabus	Y	Y
38	Process Integration	Dr. B. Mohanty	IIT Roorkee	Syllabus	Y	Y
39	Statistics for Experimentalists	Dr. A. Kannan	IIT Madras	Syllabus	N	Y