

Chaitanya Bharathi Institute of Technology (A)

Department of Chemical Engineering

Jan 2023 - April 2023 (Even Semester)

List of NPTEL Courses for Honors Degree*

Start Date : Jan23 ,2023

S.No	Course Code	Name of the Course	Duration (Wks)	Number of Credit for the	Start Date	End date	Tentative Date of Examination of the Course	SWAYAM Course home page (URL)
1	noc23-bt08	Aspects Of Biochemical Engineering	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_bt08
2	noc23-bt22	Bioreactor Design and Analysis	8	2	January 23, 2023	March 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_bt22
3	noc23-ch04	Computer Aided Applied Single Objective Optimization	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch04
4	noc23-ch05	Waste to Energy Conversion	8	2	January 23, 2023	March 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_ch05
5	noc23-ch08	Membrane Technology	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch08
6	noc23-ch09	Applied Time-Series Analysis	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch09
7	noc23-ch10	Computational Fluid Dynamics	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch10
8	noc23-ch14	Multiphase Flows	8	2	January 23, 2023	March 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_ch14
9	noc23-ch15	Environmental Quality Monitoring & Analysis	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch15
10	noc23-ch16	Chemical Process Technology	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch16
11	noc23-ch17	Biological process design for wastewater treatment	8	2	February 20, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch17
12	noc23-ch18	Introduction To Process Modeling In The Membrane Separation Process	4	1	January 23, 2023	February 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_ch18
13	noc23-ch19	Soft Nano Technology	8	2	January 23, 2023	March 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_ch19

14	noc23-ch20	Mass Momentum And Energy Balances In Engineering Analysis	8	2	January 23, 2023	March 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_ch20
15	noc23-ch22	Optimization In Chemical Engineering	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch22
16	noc23-ch25	Advanced Thermodynamics and Molecular Simulations	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch25
17	noc23-ch26	Process Equipment Design	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch26
18	noc23-ch28	Chemical Process Utilities	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch28
19	noc23-ch29	Polymer Reaction Engineering	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch29
20	noc23-ch30	Physico-chemical processes for wastewater treatment	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch30
21	noc23-ch33	Biomass Conversion and Biorefinery	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch33
22	noc23-ch34	Aspen Plus® simulation software - a basic course for beginners	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch34
23	noc23-ch35	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_ch35
24	noc23-ch36	Physical and Electrochemical Characterization in Chemical Engineering	8	2	January 23, 2023	March 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_ch36
25	noc23-ch37	Multiphase Microfluidics	8	2	February 20, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch37
26	noc23-ch38	Thermodynamics Of Fluid Phase Equilibria	8	2	January 23, 2023	March 17, 2023	March 26, 2023	https://onlinecourses.nptel.ac.in/noc23_ch38
27	noc23-ch42	Matlab Programming for Numerical Computation	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ch42
28	noc23-ce12	Water and waste water treatment	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_ce12
29	noc23-cs05	An Introduction to Artificial Intelligence	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_cs05
30	noc23-cs08	Data Analytics with Python	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_cs08

31	noc23-cs18	Introduction to Machine Learning	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_cs18
32	noc23-cs20	The Joy of Computing using Python	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_cs20
33	noc23-cs50	Programming in Modern C++	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_cs50
34	noc23-cs51	Introduction To Internet Of Things	12	3	January 23, 2023	April 14, 2023	April 30, 2023	https://onlinecourses.nptel.ac.in/noc23_cs51
35	noc23-cs52	Introduction To Industry 4.0 And Industrial Internet Of Things	12	3	January 23, 2023	April 14, 2023	April 29, 2023	https://onlinecourses.nptel.ac.in/noc23_cs52

- * 1. Students opting for the above courses should not have enrolled / should not reenroll for those courses either in NPTEL or during the regular class work at CBIT. If any student found doing so, his/her NPTEL credits would be cancelled.
2. Also subjects related to non core topics eg., AI, ML, Python cannot be more than 25% of the total credits required to complete Honors Degree
3. Course completed for honors degree can not be claimed for any other activity points or Internships



I. Bala Krishna

Coordinator

Honors Degree

Chemical Engg Dept, CBIT



Dr P V Nagapurna

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