

Subcode	SubjectName	Eff From	Category	Sem /Year	L	T	P	Credit	TEE	CA1	CA2	CA3	TEP	Total
BTAS10101	Technical Communication	2021-22	Humanities and Social Sciences including Management	1	2	0	2	3	60	25	15	20	30	150
BTAS10102	Ethics for Engineers	2021-22	Humanities and Social Sciences including Management	1	2	0	0	0	60	25	15	0	0	100
BTAS11103	Mathematics -I	2021-22	Basic Science	1	3	1	0	4	60	25	15	0	0	100
BTAS11105	Engineering Physics	2021-22	Basic Science	1	2	0	2	4	60	25	15	20	30	150
BTCL12108	Basic Electrical Engineering	2021-22	Engg.Science	1	3	0	2	3	60	25	15	20	30	150
BTGN12110	Workshop Practice	2021-22	Engg.Science	1	0	0	4	4	0	0	0	40	60	100
BTMD17101	Induction Program	2021-22	Life Skills/ Mandatory courses (Non-Credit)	1	0	0	0	0	0	0	0	0	0	0
BTME12109	Basic 13	2021-22	Engg.Science	1	2	0	2	3	60	25	15	20	30	150
BTAS11104	Mathematics -2	2021-22	Basic Science	2	3	1	0	4	60	25	15	0	0	100
BTAS11106	Engineering Chemistry	2021-22	Basic Science	2	2	0	2	3	60	25	15	20	30	150
BTCL12113	Engineering Mechanics	2021-22	Engg.Science	2	2	0	2	3	60	25	15	20	30	150
BTCL12107	Programming for Problem Solving	2021-22	Engg.Science	2	2	0	4	4	60	25	15	40	60	150
BTEC12112	Basic Electronics	2021-22	Engg.Science	2	3	0	2	4	60	25	15	20	30	150
BTMD17102	Environmental Sciences	2021-22	Life Skills/ Mandatory courses (Non-Credit)	2	2	0	0	0	60	25	15	0	0	100
BTME12111	Engineering Graphics & Design	2021-22	Engg.Science	2	1	0	4	3	60	25	15	40	60	200
BTAS10301	Principles of Economics and Management	2022-23	Humanities and Social Science including Management	3	2	0	0	2	60	25	15	0	0	100
BTCH13301	Fluid Flow Operations	2021-22	Professional Core Course	3	3	0	2	4	60	25	15	20	30	150
BTCH13302	Basic Calculation in Chemical Engineering	2022-23	Professional Core Course	3	3	0	2	4	60	25	15	20	30	150
BTCH13303	Chemical Engg. Process Technology I	2022-23	Professional Core Course	3	2	0	2	3	60	25	15	20	30	150
BTCH13304	Chemical Engineering Thermodynamics I	2022-23	Professional Core Course	3	3	0	0	3	60	25	15	0	0	100
BTCH13305	Heat Transfer	2022-23	Professional Core Course	3	3	0	2	4	60	25	15	20	30	150
BTCH14301	Green Engineering and Sustainable Development	2022-23	Professional Elective Course - I	3	3	0	0	3	60	25	15	0	0	100
BTCH14302	Introduction to biological science and Bioengineering	2022-23	Professional Elective Course - II	3	3	0	0	3	60	25	15	0	0	100
BTMD17301	Essence of Indian Traditional Knowledge	2022-23	Humanities and Social Science including Management	3	2	0	0	0	50	0	0	0	0	50
BTAS10401	Entrepreneurship and Start-up	2022-23	Humanities and Social Science including Management	4	2	0	0	2	60	25	15	0	0	100
BTAS11404	Numerical Methods in Chemical Engineering	2022-23	Basic Science	4	3	0	2	4	60	25	15	20	30	150
BTCH13401	Mechanical Operation	2022-23	Professional Core Course	4	2	0	2	3	60	25	15	20	30	150
BTCH13402	Chemical Process safety & Waste Management	2022-23	Professional Core Course	4	2	0	2	3	60	25	15	20	30	150

BTCH13403	Chemical Engg. Process Technology II	2022-23	Professional Core Course	4	2	0	2	3	60	25	15	20	30	150
BTCH13404	Chemical Engineering Thermodynamics II	2022-23	Professional Core Course	4	3	0	0	3	60	25	15	0	0	100
BTCH14401	Nano Science & nanotechnology	2022-23	Professional Elective Course -I	4	3	0	0	3	60	25	15	0	0	100
BTCH14402	Energy Technology	2022-23	Professional Elective Course -II	4	3	0	0	3	60	25	15	0	0	100
BTAS10501	Engg Optimization	2023-24	Humanities and Social Science	5	2	1	0	3	60	25	15	0	0	100
BTCH13501	Mass Transfer Operation – I	2023-24	Professional Core Course	5	3	0	2	4	60	25	15	20	30	150
BTCH13502	Chem. Reac.Engg.-I	2023-24	Professional Core Course	5	3	0	2	4	60	25	15	20	30	150
BTCH13503	Chem. Engg. Mater.	2023-24	Professional Core Course	5	2	0	0	2	60	25	15	0	0	100
BTCH14501	Processing in Agricultural Chemicals & Food Industries	2023-24	Professional Elective Course-3	5	3	0	0	3	60	25	15	0	0	100
BTCH14502	Pharma Technology – API & Formulation	2023-24	Professional Elective Course-3	5	3	0	0	3	60	25	15	0	0	100
BTCH14503	Polymer Science & Technology	2023-24	Professional Elective Course-3	5	3	0	0	3	60	25	15	0	0	100
BTCH15501	Petroleum Refinery, science & engineering	2023-24	Open Elective-1	5	3	0	2	4	60	25	15	20	30	150
BTCH13601	Mass Transfer Operation – II	2023-24	Professional Core Course	6	3	0	2	4	60	25	15	20	30	150
BTCH13602	Chem. Reac.Engg.-II	2023-24	Professional Core Course	6	3	0	2	4	60	25	15	20	30	150
BTCH13603	Process Control	2023-24	Professional Core Course	6	3	0	2	4	60	25	15	20	30	150
BTCH13605	Mathematical methods in Chemical Engineering	2023-24	Professional Core Course	6	3	0	0	3	60	25	15	0	0	100
BTCH14601	Petroleum Engineering & petrochemicals	2023-24	Professional Elective Course-4	6	3	0	2	4	60	25	15	20	30	150
BTCH14602	Fertilizer Technology	2023-24	Professional Elective Course-4	6	3	0	2	4	60	25	15	20	30	150
BTCH15601	Basic calculations and Operations in Chemical Industries	2023-24	Open Elective-2	6	3	0	0	3	60	25	15	0	0	100
BTCH16601	Seminar	2023-24	Professional Core Course	6	0	0	0	0	0	0	0	20	80	100
BTMD17608	Research & Innovation	2023-24	Life Skills/ Mandatory courses (Non-Credit)	6	1	0	0	0	60	25	15	0	0	100
BTCH13701	Transport Phenomena	2023-24	Professional Core Course	7	3	0	0	3	60	25	15	0	0	100
BTCH13702	Process Equipment Design & Drawing	2023-24	Professional Core Course	7	3	0	2	4	60	25	15	20	30	150
BTCH13703	Separation Processes	2023-24	Professional Core Course	7	2	0	0	2	60	25	15	0	0	100
BTCH13704	Chemical Engg Plant Design and Economics	2023-24	Professional Core Course	7	2	0	0	2	60	25	15	0	0	100
BTCH14701	Modelling & Simulation in Chemical Engineering	2023-24	Professional Elective - V	7	3	0	2	4	60	25	15	20	30	150
BTCH14702	Computer aided process synthesis	2023-24	Professional Elective - V	7	3	0	2	4	60	25	15	20	30	150
BTCH15701	Safety, Health and Environment in Chemical Industries	2023-24	Open Elective - 3	7	3	0	0	3	60	25	15	0	0	100
BTCH16701	Project - I	2023-24	Professional Core Course	7	0	0	4	2	0	0	0	40	60	100

BTMD17701	Indian Constitution	2023-24	Humanities and Social Science including Management	7	2	0	0	0	60	0	0	0	0	60
BTCH16801	Project - II	2023-24	Professional Core Course	8	0	0	4	2	0	0	0	40	60	100
BTCH16802	In Plant Training	2023-24	Professional Core Course	8	0	0	20	10	0	0	0	40	160	200
BTMD17801	Business Ethics & Corporate Responsibilities	2023-24	Humanities and Social Science including Management	8	2	0	0	0	60	25	15	0	0	100