	CL-308	: Overview of Indian Chemical Industry (Course on Wheels-202	22): Program
	Date	Program	Stay at (Tentative)
Preparation week: Class room Lectures			
Tuesday	22-Nov-22	6:30-8:30 pm Introduction to Chemical Tree; Overview of Indian and Global Chemical Industry (SM)	Hostel(s)-IITB
Wednesday	23-Nov-22	Management: Regulatory and Process Innovation Perspectives (SA-	Hostel(s)-IITB
Thursday	24-Nov-22	8:30-10:30 Refinery-II and Petrochemicals-I; 4:00-6:00 Petrochemcials and Fertilizers	Hostel(s)-IITB
Friday	25-Nov-22	8:30-10:30 Fine chemcials (RN); 3:00 -5:00 pm Process Control (SJ)	Hostel(s)-IITB
Saturday	26-Nov-19	8:30-10:30 Soda ash and Chlor-alkali; 3:00 pm Quiz-l	Hostel(s)-IITB
Sunday	27-Nov-22	10:30 Recap 2:00 pm Departure	Hotel Lords, ankaleshwar
,	Journey Starts		
Monday	28-Nov-22	GIPCL, Nani Naroli (Thermal Power Plant)	Hotel Lords, ankaleshwar
Tuesday Wednesday	29-Nov-22	ONGC, Ankaleshwar (Oil and Gas)	Hotel Lords, ankaleshwar
Thursday	30-Nov-22 1-Dec-22	ONGC, Ankaleshwar (Oil and Gas) Visit to Reliance Indusries Ltd Dahej (Petrochemicals)	Hotel Lords, ankaleshwar Reliance Township, Dahej
Friday	2-Dec-22	Visit to Reliance Indusries Ltd Dahej (Petrochemicals)	
Saturday	3-Dec-22	Alkyl Amine (Intermediate Chemicals)	Reliance Township, Dahej Hotel Lords, ankaleshwar
Sunday	4-Dec-22	Rest and other activities	Hotel Lords, ankaleshwar
Monday	5-Dec-22	SUNPAHRMA Panoli	Atul Township
Tuesday	6-Dec-22	ATUL (Intermediate chemicals, dyes, agro, pharma, inorganic, Purfumery)	Atul Township
Wednesday	7-Dec-22	ATUL (Intermediate chemicals, dyes, agro, pharma, inorganic, Purfumery)	Atul Township
Thursday	8-Dec-22	ALKCHEM Pharma formulations	Hotel Lords, ankaleshwar
Friday	9-Dec-22	Rest and other activities	Hotel Lords, ankaleshwar
Saturday Sunday	10-Dec-22 11-Dec-22	BEIL (Industrial waste management)	Hotel Lords, ankaleshwar
,		DELE (Industrial waste management)	Hotel Lords, ankaleshwar
Monday Tuesday	12-Dec-22 13-Dec-22	GNFC (Fertilizers)	Hotel Lords, ankaleshwar Hotel Lords, ankaleshwar
Wednesday	14-Dec-22	Travel to Bhavnagar and Rest	Nirma colany
Thursday	15-Dec-22	Nirma Ltd (Inorganic Chemicals, Soda Ash, Chloro-Alkali)	Nirma colany
Friday	16-Dec-22	Nirma Ltd (Salt works); Travel to Jamnagar	Reliance Township, Jamnagar
Saturday	17-Dec-22	Midsem exam	Reliance Township, Jamnagar
Sunday	18-Dec-22	Reliance Petroleum Ltd, Jamnagar (Refinery)	Reliance Township, Jamnagar
Monday	19-Dec-22	Reliance Petroleum Ltd, Jamnagar (Refinery)	Reliance Township, Jamnagar
Tuesday	20-Dec-22	Reliance Petroleum Ltd, Jamnagar (Refinery)	Bus
	Ian 1st wook	Posistration for CL 200: Spring 2022 22	IITD
	Jan 1st week January 2nd week	Registration for CL-308: Spring 2022-23 Endsemester exam; Report Submission and Project presentations	IITB
	Jan 3rd week	Grades annouced	IITB
Things you	will be exposed to		
Processes and facilities			
Processes and plants for few representative chemicals* from each sector. Their comparison.			
Specific processes: Reformers, Gas cracker, Refinery opreations- FCC, platforming, Coking, Crude distillation, Hydroprocessing			
Facilities/techniques: Oil exploration, Coal mining, Salt works, Jetty for oil/product shipment Equipmment/Operations			
Mass transfer: Distillation; absorption; Extarction; cooling towers			
Heat Transfer: Different types of Heat exchangers (S&T Plate); Multiple effect evaporators; ATFE, thermosyphon reboilers Process control: DCS system for plant operation and control			
Power plant: Turbines, generators, Boiler steam tube panels; Coal handling system			
Reactors: Different types of catalytic/non-catalytic reactors; packed and fluidised beds, stirred tanks, gas-liquid and gas-solid reactors			
Chemicals of Interest*			
Petrochemicals: Ethylene oxide, Polyethylene, PVC, polypropylene, PET Fertilizer Industry: ammonia, urea, methanol, sufuric and nitric acid, phospate fertilizers			
Agrochemicals: carbon disulphide, pendimethylene			
Inorganic Chemicals: soda ash, caustic, chlorine, table salt			
Dyes, APIs, perfumery and coating intermediates			
Other 			
Techno-commerical aspects of chemical manufacture and business: Views of Practising Chemical Engineers and managers A session with first generation entrpreneurs in Chemical Sector			