		CL-308: Overview of Indian Chemical Industry (Course on Wheels-2024): Program	
	Date	Program	Stay at (Tentative)
		Preparation week: Classroom Lectures	
and as	25-Nov-24	8:30AM Introduction to Course on wheels (SMM) (Room 112 Old (118))	
onday	25-1907-24	5:30PM Refinery and Petrochemicals-I (SMM) (Room 121 Old (130))	Hostel(s)-IITB
Tuesday	26-Nov-24	11:00 AM Refinery and Petrochemicals-II (SMM) (Room 112 Old (118))	Hostel(s)-IITB
		2:15-3:30PM Sustainability (YS) (Room 121 Old (130))	
		6:30PM Refinery and Petrochemicals-III (SMM) (Room 112 Old (118))	
Wednesday	27-Nov-24	8:15AM Fertilizers-I (SMM) (Room 112 Old (118))	Hostel(s)-IITB
		2:30PM Interaction with an Alum (SB) (Room 121 Old (130))	
		5PM Instrumentation and Control (SJ) followed by DWSIM Doubt Session (Room 112 Old (118))	
		8:30-9:45AM Chloro-Alkali Process (Room 112 Old (118))	
Thursday	28-Nov-24	5PM Quiz 1 (DWSIM) followed by Carbon Footprint Model (Tentative) (Room 112 Old (118))	Hostel(s)-IITB
		6:30 to 8:00 PM Safety (RN) (Room 112 Old (118))	
Friday	29-Nov-24	8:30 AM ETP (Amritanshu); 9:30AM: Techno-Commercial Aspects and Fines and Specialities (RN) (Room 112 Old (118))	
	29-1100-24	4 to 6pm: Panel discussion by BASF (RN) (Room 112 Old (118))	Hostel(s)-IITB
Saturday	30-Nov-24	8:30 AM- Power Plant & Other Utilities (Room 112 Old (118))	
	30-100-24	5PM: Quiz 2 (Room 112 Old (118))	Hostel(s)-IITB
unday	1-Dec-24	Departure: 8:30AM	Hotel Pride, Bharuch
		Journey Starts	
onday	2-Dec-24	GIPCL, Nani Naroli (Thermal Power Plant)	Hotel Pride, Bharuch
Jesday	3-Dec-24	ONGC, Ankaleshwar (Oil and Gas)	Hotel Pride, Bharuch
ednesday	4-Dec-24	ONGC, Ankaleshwar (Oil and Gas)	Hotel Pride, Bharuch
	5-Dec-24		Hotel Pride, Bharuch
nursday	6-Dec-24	DMCC (proposed)	Hotel Comfort, Bharuch
iday aturday		Birla Copper	
aturday	7-Dec-24	UPL (Agrochemicals)	Hotel Comfort, Bharuch
Inday	8-Dec-24 9-Dec-24	ATUL (Ankaleshwar) GNFC (Fertilizers)	Hotel Pride, Bharuch Hotel Pride, Bharuch
onday			
lesday	10-Dec-24	GNFC (Fertilizers)	Hotel Pride, Bharuch
ednesday	11-Dec-24	Zydus (APIs)	Hotel Pride, Bharuch
nursday	12-Dec-24 13-Dec-24	JB Chemicals and BEIL	Hotel Pride, Bharuch
riday aturday	13-Dec-24 14-Dec-24	Travel to Jamnagar Reliance Petroleum Ltd, Jamnagar (Refinery)	Reliance Township Jamnagar Reliance Township Jamnagar
	14-Dec-24 15-Dec-24	Reliance Petroleum Ltd, Jammagar (Relinery)	
unday			Reliance Township Jamnagar
onday	16-Dec-24	Reliance Petroleum Ltd, Jamnagar (Refinery)	Reliance Township Jamnagar
uesday	17-Dec-24 18-Dec-24	Reliance Petroleum Ltd, Jamnagar (Refinery) & travel to Bhavnagar	Nirma colony
/ednesday		Nirma	Nirma colony
nursday	19-Dec-24	Nirma & travel to Dahej	Reliance Township Dahej
riday	20-Dec-24	RIL Dahej	Reliance Township Dahej
aturday	21-Dec-24 22-Dec-24	RIL Dahej Midaam Talli ku Dalianan waada	Reliance Township Dahej Anand (Proposed)
unday		Midsem; Talk by Reliance experts.	
onday	23-Dec-24	AMUL (Proposed)	Pearl , Kamrej surat
uesday	24-Dec-24	L&T-Hazira (Equipment fabrication) Journy Ends	IITB Mumbai
	Jan 1st and 2nd week	Endsemester exam; Report Submission and Project presentations	Hostel IITB
	Jan 3rd week	Grades announcement	Hostel IITB
	1		1
nings you w	vill be exposed to		
ocesses an			
		hemicals* from each sector. Their comparison.	
		Refinery opreations- FCC, platforming, Coking, Crude distillation, Hydroprocessing	
		ning, Salt works, Jetty for oil/product shipment	
uipmment/0		ang,	
	: Distillation; absorption; Extarct	ion: cooling towers	
		gers (S&T Plate); Multiple effect evaporators; ATFE, thermosyphon reboilers	
	ol: DCS system for plant operati		
		m tube panels; Coal handling system	

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