Nirma University
Institute of Technology
Chemical Department

Feedback On
Design and Review of Syllabus
(NAAC point 1.4.1 and 1.4.2)

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  (Alumni, Students, Teachers, Employers and Parents)

Part - A

Stakeholder Feedback Analysis & Action Taken Report

Part A: Stakeholder Feedback Analysis & Action Taken Report: Starting from 2019-20 to 2015-16

AY 2019-2020:

Sr. No.	Name of Person	Alumni, Peer, Industry, Parents, Employer	Name of organization and Designation	Feedback / Suggestions from stakeholder	Action Taken
Teaching & Examination Scheme of B.Tech. Chemical Engineering					
1	Mr. B P S Mehta	Industry	Deputy General Manager, Process Engineering, IFFCO, Kalol	1. Course content for Sem V to VIII is well crafted for the B Tech in Chemical Engineering education 2. The "Process Equipment Design" may include the chemical plant layout, so please review if the title for same may be "Process Plant layout & Equipment Design"	Chemical Plant Layouts are part of the course Chemical Engineering Economics and Plant Design.

Semester V					
Mass Transfer Operations-II					
2	Dr. Parin Shah	Peer	Professor, VGEC	1. Steam distillation, Vacuum distillation, Also. add introduction to advanced distillation methods : Extractive distillation, Azeotropic distillation, Pressure Swing Distillation, Concept of Multicomponent distillation **2.** Add name of latest equipment in each operation like drying, crystallization, humidification, adsorption.	The topics are covered under advanced distillation techniques and/or Elective course AST. Multicomponent distillation is covered in PED subject. Suggested equipment will be discussed in theory.
3	Mr. Vinay Nagda	Industry	Proprietor, SR Hoses Corporation	1. Syllabus prepared seems up to date, 2. Two lectures per week would need proper planning. 3. Advanced distillation design may be included either in this subject or a separate subject for design.	Advanced topics in distillation have been covered, distillation design is covered in PED subject
4	Prof. Shuchen Thaore	Peer	Associate Professor, VGEC	1. Introduction of Short path/molecular distillation, Divided wall column, should be included 2. Equilibrium in Drying, Different types of batch and	1. These topics are included in advance distillation techniques and PED. 2. Equilibrium has been included, Different types of dryers will be covered in equipment

				continuous Dryers and their selection criteria should be included 3. Industrial application of Adsorption, Introduction of liquid solution to solid adsorption should be added. 4. Freeze or melt crystallization, Industrial application of crystallization, Different types of batch and continuous Crystallizers and their selection criteria should be added.	3. Applications included 4. Applications and types of equipment included. Melt crystallization added.
5	Mr. Archit Shah	Alumni	RIL, Jamnagar	(1) Content is sufficient. (2) Include tray passes in distillation **(3)** Try to add crystallization based on melting point.	Melt crystallization will be included in types of crystallization.
Environmental Pollution Control and Safety Management					
6	Dr Amit Jain	Peer	Assistant Professor, BITS Pilani - Pilani Campus, Pilani	1. The course covers the essential concepts of environmental pollution control and process safety. 2. The environmental pollution control part addresses the major areas of Air, Water and Land pollution, which is good enough	The specific subjects related to environment will be a part of department electives.

				for a combined course on environmental pollution and process safety. 3. As far as process safety is concerned the content is well designed and seems to be wide enough for a semester. 4. The course is pretty wide and may possibly be divided in two courses "Environmental Pollution Control" and "Process Plant Safety". Some of the contents may be dropped off to make it more appropriate as an undergraduate course or an elective at graduate level.	
7	Dr. Vimal Gandhi	Peer	Associate Professor, Department of Chemical Engineering, Dharmsinh Desai University, Nadiad	1. As far as safety management portion is concern, the syllabus is well designed from industrial view point. 2. In Environmental Pollution control, syllabus is up to date but requires detailing of sub topics. 3. 3 hours lecture hours may not sufficient to give justification of the each topic under one subject - 'Environmental Pollution Control and Safety Management'.	The detailing of sub topics has been done e specific subjects related to environment will be a part of department electives.

8	Mr. Yug Saraswat	Alumni	Grasim Industries, Bharuch	1. All the necessary topics are covered. The idea of including practical experiments is also very good.	-
9	Mr. Manish J. Patel	Alumni	Senior Manager- Safety, Reliance Industries Limited, SEZ, Refinery, Jamnagar	1. Syllabus covers most of the topics 2. Brief about MSDS, Industrial Hygiene and Why PSM is important may be considered. 3. Overall content is relevant to industry 4. Pressure Relief devices	Suggested topics would be added and covered in theory.
10	Mr. Nirav Pandya	Alumni	Executive-EHS Alembic Pharmaceuticals Ltd., API Unit-1, Panelav, Halol	1. Overall syllabus is good 2. Industrial Visit: Site visit of any Effluent Treatment Plant (ETP) / Common Effluent Treatment Plant (CETP)/ Solid Waste Management Site/ Treatment, Storage and Disposal Facility (TSDF) 3. The latest technology related to topics	1. Department planned the two visits per semester where students can explore different topics related to syllabus 2. The latest technology will be covered as a part of innovative assignment.
11	Mr. Bipin J Patel	Industry	Manager GSFC LTD.	1. It is sufficient and can be improved. 2. Explain the impact of pollution's according to present scenario in Delhi or discharge of industrial chemicals to water bodies or climate conventions.	Suggested topics would be discussed in theory in the form of case study.

12	Mr. Nikunj Parekh	Industry	Deputy Manager Linde Engineering India Pvt Ltd	1. Most fields covered 2. At least 80hr or so for safety engineering: This should address Safety Valve sizing, Fire Protection, Explosion Protection, Important standards like NFPA, API, OISD, IS standard, IEC, ASME etc.	ty of the suggested topics are part of syllabus.
Modeling and Simulations					
13	Mr. Nilesh Mangukia	Industry	General Manager, Linde Engineering, Baroda	1. Syllabus is reasonably well prepared. 2. More insight in to physical properties 3. Reactor models effects of Catalyst 4. Iterations to find optimum design **5.** Interpretation of the output from Simulation	The suggested topics would be covered under the laboratory practical work
14	Mr. Hrishiesh Pandya	Alumni	Senior Consultant, Process Division, Proclink Consultancy	1. Very much required course 2. Basics on tools available for simulations	The suggested topic can be covered under special assignments.
15	Mr. Jimeet Patel	Alumni	Shift Field Engineer, Reliance Ltd Jamnagar	1. Really handy course to face real word challenges. 2. Increase in industrial case studies	The suggested topic can be added during laboratory work as well as under special assignment

16	Dr. Nilanjana Banerjee	Peer	Assistant Professor, University of Petroleum and Energy Studies, Dehradun.	Simulators can be included in the curriculum.	The simulators are already part of laboratory as well as theory portion
17	Dr. Vyomesh Parsana	Peer	Assistant Professor, Chemical Engineering Department, VVP Engineering College, Rajkot	1. Syllabus is designed nicely and covers most of the topics. 2. Addition of unit Introduction to various simulators 3. Addition of topic "Modeling and Simulations of Chemical Engineering Systems" **4.** Add book " Computational Methods in Chemical Engineering" by W F Ramirez in the list of reference books	1. Suggested topics would be added and covered in theory and practical. 2. The suggested book would be added in the list of reference
Department Elective-I					
Petroleum Refining Engineering					
18	Mr. Manoj Kaila	Industry	Consultant, SPIE Oil & Gas (France), Current Location - Kuwait	1. Syllabus broadly looks fine 2. Add little details about petrochemical from 3. Refining which is new trend 4. Some more details about ARDS (atmospheric residue desulfurization)	Integrated Refinery & Petrochemical Complexes are incorporated ARDS is added
19	Mr. Ashok Kakadia	Industry	Consultant, SPIE Oil & Gas (France), Current Location - Kuwait	1. Overall it is covering very well 2. Refinery configuration, complexity and current 3. trend	Complexity and Current Trends incorporated
20	Mr. H R Patel	Industry	Procedure Development Head,	1. Atmospheric residue desulfurization	ARDS added

			Kuwait National Petroleum Company - Clean Fuels Project Mima Abdulla Refinery, Kuwait		
Air Pollution Control Engineering					
21	Mr. Jitendra Samecha	Industry	Executive Environment, Meghmani Organics Limited, Ahmedabad	1. All over the content of syllabus is good enough for APCE 2. Legal Requirements w.r.t. Air Pollution 3. Unit-III 1-COMPLIANCE REPORTING PROTOCOLS FOR ONLINE CONTINUOUS EMISSION & EFFLUENT MONITORING SYSTEMS 2-Carbon Credit and Trading 4. Unit-V Ash / Dust Handling and its effects	1. Ash and dust handling will be covered in various APC devices 2. Legal requirement will be covered during laboratory sessions
22	Mr. Gautam Pandey	Industry	Environment Engineer, Ahmedabad Municipal Corporation, Ahmedabad	1. Content of subject is good 2. Advancement in control equipment should be incorporated	1. Will be covered after completing conventional control devices
23	Mr. Ayyan Karmakar	Industry	Project Manager Oizom Instruments Pvt. Ltd. Ahmedabad	1. The syllabus is good and gives a holistic approach of Air pollution & necessary control measures. 2. The subject can include Global air quality standards as	1. Covered in syllabus 2. Laboratory session s already in course

				well as effective control measures applied globally. 3. A brief on health hazards due to excessive air pollution may be covered 4. Data driven policy changes to control air pollution (examples: Delhi government odd even rule) 5. Practical demonstration of sites showcasing advanced technologies and using newer methods to curb air pollution.	
24	Mr. Manish Patel	Industry	Proprietor. Savita Fine Chemicals	1. Syllabus covers most of the topics related to Air Pollution. 2. Industrial Safety including Risk assessment, Mitigation and Risk reduction Measures, On Site Emergency Management Plan, Off Site Emergency Management Plan 3. Unit IV Include Fugitive Emissions Control Techniques Latest Air Pollution Control Techniques as per AP-42 (US EPA) Air emission Factors. This is very useful during the designing of APCD.	Certain topics will be covered during laboratory sessions Separate course is available for EMP and risk assessment In stipulated time, course content may be increased so it want be possible to include.

				4. Unit III: Meteorology measurement of Wind speed, wind direction, Relative humidity, wet & Dry bulb temperature, Rain fall, Cloud cover etc., International and National Protocols and treaties to control air pollution Policies, guidelines and the legislation related to air pollution Control Assignments based on current scenario like, Clean Delhi Green Delhi mechanism, Electric Cars for Zero direct emission, Mass Transport to reduce Air Pollution etc.,	
25	Ms. Julie Pardiwala	Alumni	Assistant Professor Chemical engineering RNGPIT, Bardoli	1. Very good course content Contents are from low level to high for student understanding 2. Can perform experiments also some case studies can be kept	Laboratory sessions are already there.
26	Mr. Nidhi R Mehta	Alumni	Assistant Professor Chemical engineering, LJIT	1. Course content of both the subjects seems good and is covering all the practical aspects. 2. APCE syllabus should include legislative aspects.	Rules and regulation related to air pollution is added in syllabus

27	Dr. Femina Patel	Peer	Professor& Head, Chemical Engineering Department	1. Syllabus of Air Pollution Control Engineering is well defined and covers majority of the topics related to Air Pollution and Control. 2. Indoor Air Pollution 3. Control Techniques from mobile source 4. Case studies on air pollution control from stationary sources	As total no. of lectures were reduce to 2, it's not possible to cover topics in lecture sessions. However, it will be covered during laboratory sessions
Dyes and Dye Intermediates Technology					
28	Mr. Dhruvish Shah	Alumni	Student of MS in Chemical Engg at Karnegi Melon Uni	1. Syllabus is reasonably well prepared. 2. over all syllabus is covering almost dyes 3. some advanced dyes can be included	The suggested topic can be covered under special assignments.
29	Mr. Arth Patel	Alumni	Student of MS in Chemical Engg at Karnegi Melon Uni	1. overall satisfactory 2. if possible, practical can be included for synthesis of some dyes	No action needed
30	Mr. Jimeet Patel	Alumni	Shift Field Engineer, Reliance Ltd Jamnagar	1. Syllabus is reasonably well prepared. 2. More insight in to physical properties 3. Some latest dyes can be included	No action needed

31	Dr. Vimal Gandhi	Peer	Associate Professor, DD Uni, Nadiad	1. Really needed course to face real word challenges of dye industry. 2. Increase in industrial case studies	The suggested topic can be covered during class and under special assignment
32	Dr. Parin Shah	Peer	Professor, Chemical Engineering Department, VGEC, Ahmedabad	Syllabus is appropriately designed.	--
Food Technology					
33	Dr Balachandra Vibhute	Academia	Associate Professor and Head – Department of Agricultural Engg, R.K. University	1. The present syllabus scheme is good for the undergraduate curriculum of the Chemical Engineering students	No actions are required.
34	Ms. Misha Patel	Alumni	Food Scientist, Blue Marble Productions, USA	1. Food ingredients functionality to be added 2. Microwave processing 3. Sensory Analysis 4.	Suggested topics are incorporated.
Chemical Reaction Engineering-I					
35	Mr. Y V N S Suvikram	Industry	Deputy Manager, GSFC LTD, Vadodara	1. The course seems to be complete and all round 2. A topic on how process integration or bottlenecks affect the reactor conditions can be included	The suggested topics would be covered under special assignments.
36	Mr. Anupam Boruah	Alumini	Assistant Executive Mananger, ONGC, Mehsana	The overall syllabus looks promising	-

37	Mr. Lakin K Naik	Alumni	Senior Engineer-Production, Cairn Oil & Gas, Dwarka	1. The course content covers all aspects 2. Case studies on mass and energy balances for steady state and unsteady state reactors	The suggested topic can be covered under special assignments.
38	Mr. Ronak Patel	Peer	Assistant Professor, Chemical Engineering Department L.D College, Ahmedabad	1. Current syllabus of seems to be appropriate 2. Syllabus is properly designed 3. Non-ideal Flow Behaviour' should be part of CRE-II subject, as CRE-II deals with types of non-ideal flow	The suggestion has been implemented
39	Dr. Raju Mewada	Peer	Professor, Chemical Engineering Department, Government Engineering college, Morbi	The syllabus seems perfect for 3 hours lecture per week teaching scheme.	
Process Equipment Design					
40	Mr. Mehul Chauhan	Industry	Process Engineer Projects & Eng. Systems Division, Sadara Chemical Company Saudi Arabia	Following topics can be added 1. industry codes and standards and how codes are warded. 2. pump design and fundamentals of the hydraulic system as a basic equipment design.	Codes are included. The suggested topics would be covered under the laboratory practical work also. Pumping design will be included in PED-II (Elective)
41	Mr. Sumit Bamania	Industry	Process Engineer	Following topics can be added 1. Design of tanks and vessels	The suggested topic can be covered under special assignments. Or by addition of part 2 of the subject

			Projects & Eng. Systems Division, Sadara Chemical Company Saudi Arabia	2. Control valve sizing 3. Pump sizing 4. Equipment protection philosophy	
42	H. K. Patel	Industry	Procedure Development Head, Kuwait National Petroleum Company - Clean Fuels Project Mima Abdulla Refinery, Kuwait	Following topics can be added i. Reading of Isometric Drawings ii. Comparing P & ID and Isometric Drawing for GAP analysis iii. P & ID issued for construction & as built (red lining) 2) Chapter 4 – following topics to be incorporated i. Packed Distillation column design ii. Packing selection iii. Decontamination of Vessels (Distillation column, absorber etc in case of shutdown for inspection and vessel entry) 3) Chapter 5 – i. Temperature correction factor ii. Different flow patents in heat exchangers (six different types flow and each impacts heat transfer efficiency) 4) Additional Topics i. Hydro test – Water Specification, Calibration of PG, Witness Form and Punch Listing	The suggested topic can be added in PED –II as elective course. Topics can be covered during laboratory work as well as under special assignment

				ii. Tightness test of equipment - Gross Air Leak Test at 7 Kg and Operating Pressure iii. Piping & Equipment Preservation, Clean Build up concept iv. Chemical Passivation, Chemical Cleaning of equipment, Amine Degreasing etc v. Flange Management – Specification, Rascing etc vi. Gasket Management – Specification, Rascing, Serration etc vii. Short & Long Bolting viii. Equipment Inspection	
43	Mr. Smit Gandhi	Alumni	Process Engineer, UOP	Suggesting to introduce "Process Engineering" subject. There are PGD courses as well on this subject. Major Engineering company i.e Uop, L&T, Bechtel, Linde demands basic and detailed engineering profile from B.Tech student.	No action needed
44	Dr. Sridhar dalai	Peer	Assistant Professor, School of Engineering and Applied Science(SEAS), Ahmedabad University, Ahmedabad.	1. The content for PED course is designed well for Undergraduate students. 2. Please add one more reference book related heat transfer equipment. Kern D.Q., "Process	Book added

				Heat Transfer", McGraw Hill, New York, 1965.	
45	Dr. R.K.Mewada	Peer	Professor, L.E. College of chemical engineering	**1** Seems ok. **2** one small suggestion for feasibility of completion of complete syllabus in target no. of lectures. So you can plan to give some portion like PFD and basics of few topics in Self Study.	No action needed
46	Dr. Mihir P.Shah	Peer	Associate Professor Department of Chemical Engineering Faculty of Technology, D.D. University, Nadiad	1. Flow sheeting, selection material, coating and code & standard should be part of PED II (Mechanical Design) when it will be taken in final year. 2. Design variables can be elaborated in a more detailed way for selection/assumption of right variables, 3. Here rather one can add evaporator or dryer along with cyclone and decanter. 4. One can also use computer especially excel for equipment design as part of laboratory that will make calculation more interesting to the students. 5. In book section Ludwig will be good choice for equipment design. Brownell-young and	As we have no PED II, we have included here. Due care will be taken evaporator/

				Joshi can be shifted to PED II section. 6. Topics selected are excellent and are definitely as per the need of the industries at GET level.	
Department Elective II					
Nanotechnology in Chemical Sciences					
47	Dr. Hiten Mehta	Industry	Head Application Development, Clariant India Ltd, Hyderabad	1. The topics are covering new era of interest in industry. Reference books are well identified and good understanding of the same will attract the talent to industry very easily 2. Flow chemistry could be further interesting topic for future batches	It will cover under core chemical engineering subjects
48	Dr. Hemant H. Gadape	Industry	Deputy General Manager, Intas Pharmaceuticals Ltd, Ahmedabad	1. The syllabus covers most of the topics but required some additions 2. Few suggestions are as follows: a. Add nanocomposites b. Rearrange the contents in applications of nanotechnology	-- 1. This can be added in the syllabus. 2. It will be reorganized in the syllabus
49	Ms. Pallavi Dasgupta	Alumni	Research Scholar, IISc- Bangalore	1. It covers all the fundamental topics and is comprehensive 2. A few topics on Ethical implications, environmental implications can be included.	1. It covers all the fundamental topics and is comprehensive 2. This can be added in the syllabus 3. This can be included in the lab session

				3. Laboratory module may include basic conversion calculations apart from experiments	
50	Dr. Kuldeep Joshi	Peer	Assistant Professor Parul Institute of Applied Sciences and Research, Ahmedabad	1. In general the attached syllabus of "Nanotechnology in Chemical Sciences" is adequate for engineering students 2. Not required at this point of time 3. add "Classification of Nanomaterials based on their synthesis, their origin" 4. No	It is already covered
Industrial Wastewater Treatment					
51	Mr. Dipak Davda	Industry	CEO, GESCSL, Vatva, Ahmedabad	1. ZLD and comparison of cost, 2. carbon foot print of deep sea disposal V/S ZLD, **3.** effective treatment of sewage or reuse of sewage	f the suggested topic ZLD is included and other can be covered under special assignments.
52	Mr. Sanket Gohil	Alumni	Country Manager - India Microdyn-Nadir Singapore Pte Ltd	1. Inclusion of Pollution Control Limits for Discharge and Recycle. 2. Role & types of Chemicals & Micro-organisms (Enzymes, Bacteria) to treat hazardous wastes. **3.** A bit more on Membrane technology and future	Membrane technology and future options: Ultra-, Nano- and MBR are included in the syllabus. Some of the suggested topics like limits for discharge will be covered under the laboratory practical work and other will be covered under special assignment.

				options: Ultra-, Nano- and MBR	
53	Dr. P N Dave	Peer	Professor, Sardar Patel University Vallabh Vidyanagar	1. Distinguish between the quality of domestic and industrial water requirements and Wastewater quantity generation 2. Understand the industrial process, water utilization and waste water generation 3. Impart knowledge on selection of treatment methods for industrial wastewater 4. Acquire the knowledge on operational problems of common effluent treatment plants 5. Gain knowledge on different techniques and approaches for minimizing the generation and application of Physio chemical and biological treatment methods for recovery, reuse and disposal of industrial wastewater among others. 6. Design a component, system or process to meet desired	Some of the suggested topics like quality of wastewater, water utilization, etc will be covered under the laboratory practical work and other will be covered under special assignment. Design of specific units will be out of the scope of this subject, new department elective related to this will be floated in future.

				needs and imposed constraints.	
54	Mr. Ayyan Karmakar	Alumni	Project Manager, Oizom Instruments Pvt. Ltd.	1. The syllabus is well structured. 2. Unit 1 Introduction may have more time and include Hydraulics of WWTP 3. Unit 4 May need more time as there are many advances in WW treatment options today in the market ranging from RO, FO, TMF, submerged MBR, Clarifiers, diffusers. 4. Sampling techniques may be covered along with advances in measurement of water quality. 5. ZLD is now the trend with industries, so may be included. Reverse Osmosis systems are a full-fledged subject in itself. Also, an introduction to Multiple effect evaporators as part of the technology may be covered.	Some of the suggested topics like ZLD, RO etc are incorporated in the syllabus and other will be covered under the laboratory practical work or in special assignments.
Analytical Chemistry					
55	Dr. Hiten S. Mehta	Industry	Head-Application Development Consumer Care	1. The basics of analytical chemistry are included which stands enough for the Graduation syllabus.	The suggestion would be covered under the theory portion.

			Clariant India Ltd., Hyderabad	2. Industrial applications of the analytical tools may help students. 3. For graduation the syllabus appears enough for analytical science and equipment.	
56	Dr. Hemant H. Gadape	Industry	DGM (ADL-API-R&D) Intas Pharmaceuticals Ltd. Ahmedabad	1. The syllabus looks good for the under graduate level students. 2. Chemical analysis will be helpful to the students to understand the basics of Analytical Chemistry. 3. These topics are good enough. 4. No more further suggestions.	The suggestion would be covered under the laboratory practical work.
57	Dr. Kuldeep Joshi	Peer	Assistant Professor-Chemistry Indus University Ahmedabad	1. In general the attached syllabus of "Analytical Chemistry" is adequate for engineering students. 2. Not required at this point of time. 3. You can add basics of Mass Spectroscopy.	The suggested topic will be covered under the laboratory practical work.
58	Dr. Keyur Bhatt	Peer	HOD-Chemistry Ganpat University, Mehsana	1. The syllabus proposed in under graduate (Analytical	Not required

				Chemistry) is very strong and complete.	
59	Mr. Rushabh Chhatbar	Alumni	GET, Indian Dairy Machinery Company Ltd., Anand	1. The subject really helped us a lot during our final major project. The techniques to determine the chemical properties based on their physical and chemical properties helped us in understanding nature of the compound and used it for a particular purpose during our projects.. 2. This is enough for the graduate level. 3. Some topics of chemical analysis should be added. 4. Topics on food products could be something new and interesting.	The suggested topic will be covered under the laboratory practical work.
60	Mr. Nandan Chhartbar	Alumni	Self employed Olympic Textile Printery, Jetpur	1. Analytical Chemistry helped us in experiments to determine the various properties. Especially UV Spectrophotometry helped us in our final year project work to determine colour removal of wastewater that	The suggestion would be covered under the theory and practical portion.

				was taught during Analytical Chemistry course. 2. A subject that is hybrid of Analytical chemistry and its application part like how it can be used in various industries as it is a backbone for every chemical industry to know various property of chemical used. 3. There are many advancements in Analytical Chemistry in recent times so knowledge of these advancements that would be prevalent in future in the industry would be helpful to students. 4. Practical observation or labs for students should be arranged to learn various equipment of chromatography in our Advanced Research Lab.	
Department Elective III					
Advanced Separation Techniques					
61	Dr. P. D. Shah	Peer, Academia	Professor, Govt. Engg College, Chandkheda	1. Melt crystallization 2. Adductive crystallization	Incorporated

Fertilizer Technology					
62	Mr. Y V N S Suvikram	Industry	Deputy Manager, GSFC LTD, Vadodara	1. The course seems to be complete and all round 2. A topic on recommend quantities to be added in the soil according to soil health tests should be part of syllabus	The suggested topics is added in the syllabus.
63	Mr. Bhoopesh Sishodia	Industry	Assistant General Manager KRIBHCO, Hazira	Course content is Ok	-
64	Mr. Karan Ramesh Bhai Dhaduk	Industry/Parent	Assistant General Manager KRIBHCO, Hazira	1. The course content is Ok 2. Nano fertilizers should be included.	The suggested topics is added in the syllabus
65	Mr. Lakin K Naik	Alumni	Senior Engineer-Production, Cairn Oil & Gas, Dwarka	1. The course content seems to be in line with industry demand 2. Advancement and digitalization of process control and latest process control tools used in fertilizer industry.	The suggested topic can be covered under special assignments.
66	Mr.Ronak Patel	Peer	Assistant Professor, Chemical Engineering Department L,D College, Ahmedabad	Syllabus is properly designed	-
Polymer Technology					
67	Mr. J.D. Rachh	Industry	Manager - Process Honeywell Process Solution Pune	1. syllabus found ok 2. for era of single use plastic ban, very useful to students	The suggested topic can be covered under special assignments.

				3. some biodegradable polymer related topics can be added 4. almost topics covered	
68	Mr. H. K. Patel	Industry	Procedure Development Head, Kuwait National Petroleum Company - Clean Fuels Project Mima Abdulla Refinery, Kuwait	1. very good but brief syllabus 2. polymer manufacturing can be included for some well-known polymers 3. good one	The suggested topic can be covered under special assignments.
69	Mr. Dhruvish Shah	Alumni	Student of MS in Chemical Engg at Karnegi Melon Uni	1. syllabus seems ok. 2. Some latest developed polymers to be included	The suggested topic can be covered under special assignments.
70	Mr. Arth Patel	Alumni	Student of MS in Chemical Engg at Karnegi Melon Uni	1. Syllabus is balanced. 2. Biodegradable polymers can be included	The suggested topic can be covered under special assignments.
72	Dr. Mamta Saiyad	Peer	Former Head, Plastic Engg, IDS, NU	1. Syllabus is balanced.	No action needed
Non-Conventional Energy Sources					
73	Mr. Y V N S Suvikram	Industry	Deputy Manager, GSFC LTD, Vadodara	1. The course seems to be complete as per title given to it 2. How to make process cost effective and ensuring successful clean implementation from source	The suggested topic can be covered under special assignments.

				to sink should be included and not just their generation.	
74	Mr. Rajesh.Jayswal	Industry/Parent	General Manager Saudi Aramco, Saudi Arabi	Nuclear Energy should be part of syllabus	The suggested topic is included in llabus
75	Mr. Lakin K Naik	Alumni	Senior Engineer-Production, Cairn Oil & Gas, Dwarka	1. The course content seems to be in line with industry demand 2. Futuristic Energy Trends, Energy Storage, micro grids and energy access advancement in developing countries needs to be included in syllabus.	The suggested topic can be covered under special assignments.
76	Mr. Ronak Patel	Peer	Assistant Professor, Chemical Engineering Department L.D College, Ahmedabad	1. Syllabus is properly designed 2. Nuclear Energy should be part of syllabus	The suggested topic is included in the syllabus
Applied Chemical Engineering Thermodynamics					
77	Mr. Sanmitra Tembe	Industry	Asst. Engineering Manager, Wood PLC, Mumbai	1. Course Content is good 2. Effect of thermodynamic models on simulations should be included	The suggested topic can be covered under special assignment.
78	Mr. Chintan K Modi	Alumni	Assistant Professor, SRICT, Ankleshwar	1. Course content is good 2. If possible add tutorial session.	Addition of tutorial session is not possible because the course is an elective with fixed teaching scheme.

79	Prof. Parag Saxena	Peer	Head, Chemical Engineering Department, Parul University, Baroda	Syllabus is designed properly and covers all the points.	-
80	Dr. Vyomesh Parsana	Peer	Assistant Professor, Chemical Engineering Department, VVP Engineering College, Rajkot	1. Course content is designed nicely and is sufficient for UG students 2. Add Group contribution methods for calculations of various properties. **3.** Addition of some more books in the suggested readings.	1. Suggested topics would be added and covered in theory 2. The book would be added in the list
Solid Waste Management					
81	Dr. Femina Patel	Peer	Professor and Head, Vishvakarma Government Engineering College, Chandkheda, Ahmedabad	1. Syllabus for Municipal Solid Waste Management is well defined and covers majority of the topics related to Municipal Solid Waste Management. 2. Add topics "Secured landfills" and "Case studies on Solid Waste Management" 3. More insight to hazardous and biomedical waste management	The suggested topics would be covered and case studies will be discussed during theory sessions.
82	Mr. Fakhri Kanpurwala	Industry	Technical head, The Gujarat Institute of Civil Engineers and Architects	1. As per the syllabus of the subject it is more appropriate to keep the name of subject as Solid Waste Management. 2. Plastic waste should be covered in the syllabus. 3. Concept of Extended Producer Responsibility should be	The suggested topic-Plastic Waste Management and construction and demolition waste can be covered under the special assignment. Concept of Reduce, Reuse and Recycle for all types of waste are already covered in theory.

				covered for plastic waste as well as E-waste. 4. Concept of Reduce, Reuse and Recycle for all types of waste must be covered. 5. Construction and demolition waste should be covered.	
83	Ms. P. A. Shah	Industry	Environment Manager, Gandhinagar Municipal Corporation, M. S. Building, Sector-11, Gandhinagar	1. The syllabus is well designed from industrial view point. **2.** Consider various solid waste processing technologies.	Various processing techniques are already part of theory portion
84	Ms. Prakruti Shah	Industry	Freelancer-Environment Consultant	1. Importance of Hazardous waste management shall be more.	Suggestion will be appreciated.
85	Mr. Himanshu Bhutia	Alumni	Assistant Manager-Environment Health and Safety, Jubilant Life Sciences Ltd, Nira, Pune	4. Syllabus is designed nicely. 5. The industrial use of any SWTT equipment or technology must be known to students, case study and knowledge of innovative waste treatment technology.	test technology will be covered in special assignments.
86	Ms. Parthvi Patel	Alumni	Pursuing masters in Environmental Sciences, The University of Koblenz-Landau, Landau, Germany	1. Outline for the subject is good 2. Sub-topics are able to include all the necessary categories 3. Include both successful and unsuccessful examples from all over the world related to solid waste management 4. Inclusion of current practices and/or methods being employed	The different case studies related to syllabus will be discussed in the theory. The current practices/methods employed by the local municipal corporation and how to improve the process efficiency will be covered in theory part as well as a part of special assignment.

				by the local municipal corporation.	
87	Dr. Parin Shah	Peer	Professor, Vishvakarma Engineering College, Chandkheda, Ahmedabad	1. Thermal Treatment 2. Soil contamination and site remediation 3. Major legislations and government policy	The suggested topics can be covered under special assignments.
Material Science					
88	Dr P N Dave	Academia	Professor, Sardar Patel University	I recommend to accept this curriculum in toto as it is coherently designed, good blend of science and engineering aspects, and will be covered up in the semester time frame.	No action is required
Open Elective (Chemical and Analytical Techniques)					
89	Dr. Hiten S. Mehta	Industry	Head-Application Development Consumer Care Clariant India Ltd., Hyderabad	1. The basics are included which stands enough for the engineering graduates 2. Industrial applications of analytical tools may help students. 3. For graduation the syllabus appears enough for analytical science and equipment.	The suggested topic can be incorporated under overview section
90	Dr. Hemant H. Gadape	Industry	DGM (ADL-API-R&D) Intas Pharmaceuticals Ltd. Ahmedabad	1. The syllabus looks good for the UG students. 2. These topics are good enough. 3. No more further suggestions.	-
91	Dr. Kuldeep Joshi	Peer	Assistant Professor-Chemistry	1. In general the attached syllabus of "Chemical Analytical	-

			Indus University Ahmedabad	Techniques" is adequate for engineering students. 2. Not required at this point of time. 3. No more suggestion required.	
92	Dr. Keyur Bhatt	Peer	HOD-Chemistry Ganpat University, Mehsana	1. Proposed Syllabus is very strong and complete. 2. Syllabus covered most of topics for UG level students	-
93	Mr. Rushabh Chhatbar	Alumni	GET, Indian Dairy Machinery Company Ltd., Anand	1. Topics on Sensors, food products etc could be something new and interesting.	The suggested topic can be incorporated under application section
94	Mr. Nandan Chhatbar	Alumni	Self employed Olympic Textile Printery, Jetpur	1. The subject is related to Chemical analytical Techniques it helps students in experiments to determine the various properties. UV Spectrophotometry especially is helpful. 2. There are huge requirements in analytical techniques in recent times so knowledge of these advancements that would be prevalent in future in the industry would be helpful to students.	These suggestions can be incorporated under physic-chemical analysis
Open Elective (Air Pollution Control Techniques)					
95	Mr. Ayyan Karmakar	Industry	Project Manager Oizom Instruments Pvt. Ltd. Ahmedabad	1. The syllabus seems good as all the aspects are covered.	1. Advancement in the field of air pollution will be covered

				2. Current development in air pollution should be included.	
96	Mr. Nilesh Mangukia	Industry	General Manager Linde Engineering Vadodara	The syllabus of Modeling and Simulations looks reasonably well prepared Piping & Instrumentation diagram, More insights into physical properties, for reactor model effect of catalysts, outputs from simulation (e.g. process data sheets), iteration to find most optimum rocess design hydraulics, heat and mass balance\Students shall understand the reasoning of entry of different parameters in the simulation tool, able to interpret the results and able to optimize the results. Data entry into simulation is easy but understand the process fundamentals is much more important	The suggestions would be discussed during BoS meeting
97	Shri Bhupen Mehta	Industry	General Manager (Process) IFFCO- Kalol Gujarat	1. Title may be change as "Process Plant layout & Equipment design". 2. New subjects includes under Department Electives: (a) Introduction Material Science with respect to Chemical Process Industries.	The suggestions would be discussed during BoS meeting

				(b) Advance Energy Conversion. (c) Sustainable Energy Management (d) Introduction to Biotechnology	
98	Mr. Jimeet Patel	Alumni	Shift Field Engineering Reliance Ltd.	Really handy to face real world engineering problems. Can increase the number of industrial scenario exposure questions and creating forced process deviations with timed troubleshooting to test agility and understanding	The suggestions would be discussed during BoS meeting

Sr. No.	Stakeholder	Name	Feedback	Action taken
1.	Alumnus	Neha Tripathi	Bins, silos, hoppers design calculations w.r.t angle of repose may be included.	Considered
2.	Alumnus	Manish J. Patel	EPCSM In process safety designs, Pressure relief device plays important role. If we can include PSV sizing, Relief load calculation, Types etc.	Considered
3.	Alumnus	Pallavi Dasgupta	OC A few chapters on organometallic chemistry may also be included.	Considered
4.	Alumnus	Neha Tripathi	IPC Simulation softwares for various control logics can be introduced for better clarity of the control philosophy.	Not Considered
5.	Alumnus	Hitanshu Sachania	SFO - perfect, EPCSM - redundant, CPI - lackluster Based on the current market trends, a major component of computation and mathematics is lacking in our curriculum. Less rote learning and more case studies + term papers/projects (especially for CPI and EPCSM) are required.	Not Considered
6.	Alumnus	Chintan Modi	CET Maxwell relations	Considered

7.	Alumnus	Neha Tripathi	IPC "a) It is nice that subject covers variety of types of Temp Transmitters, Pressure Transmitters & Level Transmitters. But usually type of instrument is selected by Instrument Engg. in our industry. For a process engineer it is very well important to know the principal of operation of any instrument but instead of covering various types the syllabus should also contain the information of selection of instruments based on working fluid nature such as corrosive, non-corrosive services, phases - gas, solid, liquid, etc., range, set points selectivity, etc. Also, some of the instrument types which have become obsolete nowadays can be eliminated and newly introduced remote measurement devices can be introduced. b) Explanation of topics with reference to a relevant P & I D will be useful to clear the basic understanding of logic controls."	Considered
8.	Alumnus	Nishant Tailor	Emphasis should also be given to problems faced by industries employing processes which use gas absorption, liquid-liquid extraction & leaching and its troubleshooting.	Considered
9.	Alumnus	Nikhil Shah	MTO I Following topics should alsobe added in course structure: 1) Introduction: Ficks first law, Concept of N & J Flux 2) Interphase Mass Transfer: Mass transfer in laminar and turbulent regions, 3) Gas absorption: Ventury scrubber, Wetted wall towers, spray towers, Packed Towers, Packed tower internals, Different types of packings and their selection criteria, mass transfer coefficient for packed towers, Tray tower vs. Packed tower 4) Extraction:Ternary liquid- liquid equilibrium and tie line data, Applications of liquid-liquid extraction 5) Leaching: Rate of leaching, Recovery of solvent vapors, Application of leaching Suggested reading: â€¢ Coulson And Richardsonâ€™s Chemical Engineering. Vol I & II, Asian Books Pvt Ltd, 1998. ;	Considered
10.	Alumnus	Y V N S Suvikram	SFO More emphasis on interpretations in applications of various critical factors like mixing index and how it shall vary under various conditions.	Considered

11.	Alumnus	Yug Saraswat	Transport Phenomena should be a mandatory subject. It is especially relevant for students entering research and design.	Not Considered
12.	Alumnus	Neha Tripathi	HTO Glimpse of topics such as design of Plate heat exchangers, kettle reboilers, vacuum condenser system can be tried to be touched upon so students are at least aware of the system during industrial exposure.	Considered
13.	Alumnus	Dharamashi Rabari	CREI Multiphase Reactors can be floated as technical elective.	Not Considered
14.	Alumnus	Nishant Tailor	Restructuring of syllabus for CPI to reduce number of processes and include block diagram, PFD and P&ID in the subject. Material science can help students understand different MOC like carbon steel, low temperature carbon steel, stainless steel, alloy steel, etc.; material behavior like brittle fracture, elasticity.	Not Considered
15.	Alumnus	Nishant Tailor	According to proposed structure, SFO, FFO & HTO will be offered in 3rd semester. There should be one industrial visit at the end of the semester where the students can be shown operations / equipment only related to these 3 subjects. The student should be able to relate his/her learning throughout the semester with actual operations, trouble-shooting at the end of the semester	Not Considered
16.	Alumnus	Nirav Pandya	EPCSM "1. Process Safety: â€¢ It can be a part of Sem. VI or/and VII. â€¢ It can be a part of Department Elective subject. â€¢ So Chemical Engineer can easily co-relate safety and chemical engineering straightforwardly. Process safety is a vital and extremely demandable stream. 2. Environmental Laws & Liasoning â€¢ As a Chemical Engineer he/she may work in safety department. As we know that, now-a-days there is no separate department for Safety & Environment instead it is Health, Safety & Environment (HSE). So, he/she must have knowledge about Environmental Acts, laws and Legal formalities which may require to deal with State/Central Pollution Control Board, MoEF. "	Not Considered

17.	Alumnus	Hrishikesh Pandya	Modelling and simulation "Basis information on: 1. Artificial intelligence 2. Machine learning Also make all students compile their model into one model and see how making any changes affects system equilibrium or parameters." Basics on tools available on market for modelling and simulation. Can be part of seminar or self presentation.	Not Considered
18.	Employer	Harshadkumar Patel	Environmental Pollution Control and Safety Management - Add ISO 14001 clauses, Audits, auditors quality, writing NC etc, HIRA â€“ Kinny & fine method for risk mitigation to be incorporated, BOW tie method etc to be part of syllabus if there is enough time available. Add safety devices like â€“ Oxygen meter, Toxic gas detectors â€“ H2S responders, Interlocks and its case studies	Not Considered
19.	Employer	Harshadkumar Patel	IOT in Chemical Engineering (Project Based Subject) to be added and student to be exposed to some of the chemical engineering equipment parameter tuning with mobile application for laboratory equipment. it should done in collaboration with IT / Computer students to make it multi disciplinary.	Not Considered
20.	Employer	Nikunj Parekh	At least 80hr or so for safety engineering: This should address Safety Valve sizing, Fire Protection, Explosion Protection, Important standards like NFPA, API, OISD, IS standard, IEC, ASME etc.	Not Considered
21.	Employer	Dr. Hemant H. Gadape	Organic Chemistry "Few suggestions are as follows: 1. Add anthracene in poly-nuclear aromatic compounds. 2. Add orgnao-metallic compounds of Magnesium and Lithium in alkyl halides 3. Remove Co-enzymes, Chloroform, Carbon tetrachloride and acetic anhydride. 4. Rearrange the contents in Alkene, Alkyl halides and Chemistry of Heterocyclic compounds."	Not Considered

22.	Employer	Shri Nilesh Joshi	Fluid flow operations "I am not sure if two lectures would suffice the contents, but if it does, I would suggest to include the following topics: 1. Pressure drop across the various elements of pipes e.g. pipes, bends, valves etc. 2. Hydraulics calculation to determine line size and control valve size and specification "	Considered
23.	Employer	Bhargav Parekh	HTO Some more Heat Exchangers can be accommodated	Considered
24.	Employer	Bhargav Parekh	IPC "- end to end implementation of equipments after designing like integration with dcs, plc etc - performance optimization of refinery equipments"	Considered
25.	Employer	Nilesh Mangukia	Modelling and simulation More insights into physical properties, for reactor model effect of catalysts, outputs from simulation (e.g. process data sheets), iteration to find most optimum process design	Considered
26.	Employer	Kalpeshkumar Raval	Environmental Pollution Control and Safety Management ;Following topics can be added. Safety Engineering / International and national Accidents and Chemical Accidents in details i.e. Bhopal disaster, Chernobyl, Flixborough disaster, Seveso Disaster, Gulf of Mexico Accident, Disaster Management Plan, Emergency Response Plan, Sustainability , Run Away Reactions, Explosive chemical reactions in the industries and necessary safety measures etc ;	Not Considered
27.	Employer	Shri Harpal Singh	Process Calculations Unsteady state operations may be studied at post graduate level	Not Considered
28.	Employer	Harshadkumar Patel	Add Membrane separation like RO, UF, NF (widely used in Demineralization of sea water for boiler feed water.	Not Considered
29.	Employer	Jagdish Rachh	IPC See if controller tuning can be include	Considered
30.	Parent	Shri Manish Sheth		Considered

			Process calculation is a heart of the operating industries. It gives a lots of learning to students to calculate material balance, conservation of natural resources i.e. Water, Oil, and Energy.	
31.	Parent	Dr Dileep Srinivasan	CPI Cement industries can also be incorporated	Considered
32.	Parent	Dr Dileep Srinivasan	CPI Metallurgy can also be incorporated	Not Considered
33.	Teacher	Dr. Vimal Gandhi	In my view, need to be offer separate â€˜Environmental Pollution Control â€˜subject at UG level.	Not Considered
34.	Teacher	Ms. Mausumi Mukhopadhyay	For BTech students new topics like variable thermal conductivity can be included. Some heat exchangers like multistream heat exchangers, and some recent developments can be included.	Considered
35.	Teacher	Dr. Amit Jain	Environmental Pollution Control and Safety Management Following topic are suggested and may possibly be included the course: Dispersion modeling in EPC (Reference; Book by Davis and Cornwell), source modeling & relief devices in process safety (Reference: Book by Crowl and Louvar).	Not Considered
36.	Teacher	Dr. Bharat Modhera	HTO Heat Exchangers types can be added	Considered
37.	Teacher	Dr. Bharat Modhera	HTO Combined heat transfer by conduction, convection and radiation	Not Considered
38.	Teacher	Dr. A. P. Vyas	Mass Transfer Operation-I Eddy diffusion part is not covered in Unit-I. That can be covered to see the comparison of Molecular and Eddy diffusion.	Considered

39.	Teacher	Dr. Nilanjana Banerjee	M&S In Laboratory work, will there be simulators like ASPEN/HYSIS/PROSIM involved? If yes, then can it be included in the curriculum?	Considered
40.	Teacher	Prof. Manish Shah	Mass Transfer Operation-I Compared to Gas Absorption; Liquid-Liquid Extraction process used less frequently. Thus Leaching can be removed from the course. Liquid-Liquid Extraction should be cover in short. Following topics should be added in MTO1 1. Acid / Sour gas treatment 2. Gas dehydration Acid gas treatment and Gas dehydration are very common in Upstream oil and gas, downstream refineries as well petrochemicals. Reading and teaching material for above topics are readily available on internet as well books are also available. Thus students will learn practical process / technology and preliminary design of the system. GPSA Engineering data book will be very useful for above and other topics.;	Not Considered
41.	Teacher	Dr. Vimal Gandhi	SFO You may consider Agitation topic under the chapter of â€œAgitation and Mixingâ€• including scale of agitated vessel problem, which may useful to them from Industrial view point as well as preparation of competitive exam like GATE. Ignore this suggestion if you already consider this topic under Fluid Flow Operation. ;	Considered
42.	Teacher	Dr. A. P. Vyas	Chemical Engineering Thermodynamics If possible, either reduce the syllabus or at least one more lecture hour per week must be added.	Not Considered
43.	Teacher	Dr. Nishant Pandya	HTO add a topic under Thermal radiation: Radiation network add one lecture on -- Recent advances in heat exchangers ;	Considered
44.	Teacher	Dr. Nishant Pandya	IPC Include a topic on recent advances in measurement of Temperature, Pressure and Level.	Considered
45.	Teacher	Dr. Chetan M. Patel	MTO I Diffusion in solids should be covered	Not Considered

46.	Teacher	Dr. Vyomesh Mansukhbhai Parsana	Mass Transfer Operation-I The below mentioned topics can be included, if feasible: 1) Membrane processes 2) Chromatography ;	Not Considered
47.	Teacher	Prof. Jigesh Mehta	HTO Instead of scheme of 2+1+2 (Lecture+Tutorial+Lab), scheme should be 4+2 (Lecture+Lab). I think tutorial work(problem solving) can be performed in the lecture hours only.	Not Considered
48.	Teacher	Dr. Bharat Modhera	IPC Mathematical Modeling considerations for control purposes, Special Controls: Cascade - feed forward and ratio control - dead time compensation, Flow measurement, Viscosity measurement, Moisture and humidity measurements. Conductivity meter- pH meter, Analytical instruments â€“ Liquid chromatography â€“ HPLC â€“ Mass spectroscopy - Computer aided analysis â€“ process instruments and automatic analysis	Not Considered
49.	Teacher	Prof. Jigesh Mehta	1. Introduction to Process Control. 2. Laplace Transform. 3. Stability Criterion Unit. 4. P&ID diagram study.	Considered
50.	Teacher	Dr. Bharat Modhera	IPC Measuring devices for flow and Viscosity	Not Considered
51.	Teacher	Dr Amit Jain	IPC It is suggested to include a topic on ;Pharmaceutical process industry ;. It will open the opportunities for chemical engineers to in pharma industry.	Not Considered
52.	Teacher	Dr. Bharat Modhera	IPC Some instruments can be added in pressure and level measurement.	Considered
53.	Teacher	Vyomesh Mansukhbhai Parsana	M&S The current trend is switching towards open source software from the conventional costly software packages. So I would like to suggest that in the last chapter ;Introduction to various simulators ; teachers give some idea of open source software to students.	Considered

AY 2017-18

Sr. No.	Name, Affiliation and Contact Details of Stakeholders consulted (Students, Teachers, Employers, Alumni, Parents & Others)	Details of Feedback Received for design and review of syllabus	Feedback for revision in Existing Syllabus is **Considered/ Not Considered**
1.	Department	Proposed syllabus of Introduction to Chemical Engg. To be included in First year	Considered
2.	Shri Nishant Tailor-Alumni	PFD and PID to be included in "Introduction to Chemical Engg."	Not Considered
3.	Shri Nishant Tailor-Alumni	Obsolete topics to be removed from CPI and latest processes to be included	Considered
4.	Dr. Sachin Parikh	Subject Process Optimization to be added in the pool of electives	Considered

5.		Economics offered in Semester III is at a very junior level	Considered
6.		2 lectures in FFO are less	Not Considered
7.	Committee	Material Science subject in Semester IV must incorporate latest trends	Not Considered
8.		More number of experiments in CPI	Not Considered
9.		EPCSM: In lab, all experiments related to air pollution will be incorporated	Considered
10.		EPCSM: Safety part should be given due weightage.	Considered

AY 2016-17: No revision was proposed hence no feedback in this academic year

AY 2015-16: No revision was proposed hence no feedback in this academic year

Part - B

Filled Feedback Forms by Various Stakeholders

(Alumni, Students, Teachers, Employers and Parents)

Note: It is not compulsory for students to disclose their identity while giving the feedback

AY 2019-2020

Alumni

Timestamp	Name	Roll No	Designation	Organization	Mobile Number	Email Address	Course	Feedback on the Syllabus			
12/15/2019 12:09:14	Nikhil Shah	05bch024	Research Associate	Torrent Pharmaceuticals Ltd - R&D Centre	9974445325	nikhilbk87@yahoo.com	Process Optimization	Overall the syllabus looks fine.	However one suggestion to add a topic related to various Optimization Programming Languages like GAMS, LINDO, AMPL etc and various softwares with optimization capabilities e.g Excel Solver (already going to be used), MATLAB, MathCAD, Maple etc so that students are aware of the tools available in market.	As mentioned in suggestions.	Not applicable,
01-06-2020 10:25	Kabir	15bch013	Student	University of Waterloo	5483331226	vardankabir@gmail.com	Master's Chemical engineering	Must have knowledge	More focus on Heat exchanger design	More working on software like HTRI	None
01-09-2020 21:55	DHRUVISH SHAH	14BCH014	student	karnegi melon	8000703484	14bch014@nirmauni.ac.in	Polymer Technology	seems ok.	Some latest developed polymers to be included	nil	over all good
01-09-2020 21:58	DHRUVISH SHAH	14bch014	student	Karnegi Melon Uni	800073484	14bch014@nirmauni.ac.in	Dyes and Dye Intermediate Technology	over all syllabus is covering almost dyes	some advanced dyes can be included	Nil	overall good
01-09-2020 22:04	Arth Patel	15BCH031	STUDENT	Karnegi Melon University	12017083923	patelarth2604@gmail.com	Polymer Technology	Syllabus is balanced.	Biodegradable polymers can be included	not needed	satisfactory syllabus

01-09-2020 22:09	patel arth	15bch031	Student	Karnegi Melon University	12017083923	patelarth2604@gmail.com	Dyes and Dye technology	overall satisfactory	if possible, practicals can be included for synthesis of some dyes	not needed	overall good
01-12-2020 12:48	Chintan K. Modi	19ptphde203@nirmauni.ac.in	Assistant professor	Shroff S R Rotary institute of chemical technology	8866413808	chintan.modi@srict.in	Applied Chemical Process Thermodynamics	Course content is good..	If possible may add tutorial session	NA	NA
1/16/2020 12:42:46	JULIE	13FTPHDE06	Assistant Proof+Technial manager in Audit Lab	RNGPIT, BARDOLI	8141325125	julie.pardiwala@gmail.com	Air pollution	Very good course content Contents are from low level to high for student understanding	Can perform experiments also some case studies can be kept	no	no
1/17/2020 11:26:11	PARTH SOLANKI	09bch31	Manager	RIL	7016906642	parths@live.in	PED	All the aspects required for chemical engineering are covered here in subject!	PED subject is very very much important for chemical engg.. What I feed after being in industry is that PSV and safety equipment design should be included with more weightage as it will create more value to chem engg portfolio.	None	None
1/22/2020 9:13:51	Smit Gandhi	09BCH007	Technologist	Reliance/ UOP	9033920792	er.smitgandhi@outlook.com	Modeling and Applied	Well curated course	Provide additional time for process tools experience	Required changes are already covered but accommodate schedule for hands on tools	Thank you for asking, will be more than happy to help in future as well.

										knowledge	
2/24/2020 10:45:49	**NIDHI** R MEHTA	14MCHE06	ASSISTANT PROFESSOR	LJ Institutes of Engineering & Technology	9408310497	nidhi90.mehta@gmail.com	Air Pollution Control Engineering/ Air Pollution Control Techniques	Course content of both the subjects seems good and is covering all the practical aspects.	APCE syllabus should include legislative aspects.	NO	NO
9/18/2020 18:35:45	Chintan Bhomia	09BCH041	Project Manager	Agilis Chemicals INc	6465464605	cnbhomia@gmail.com	Chemistry	Holistic syllabus. No modifications come to mind	None	None	None

Teachers

Timestamp	Email Address	Designation	Institute	Phone No	Email	Subject for which you are giving response	Comment	Suggestions for new topic	Any suggestion relevant to syllabus
7/19/2019 18:40:18	Vyomesh Mansukhbhai Parsana	Assistant Professor	V.V.P. Engineering College, Rajkot	9824174412	vyomesh.parsana.ch@vpedulink.ac.in	Modeling and Simulation	The syllabus of Modeling and Simulation subject is designed nicely and it covers almost all the essential aspects of the subject. However, I would like to suggest a few small things in next two sections.	The current trend is switching towards open source software from the conventional costly software packages. So I would like to suggest that in the last chapter "Introduction to various simulators" teachers give some idea of open source software to students.	I would also like to suggest that in the chapter "Modeling and Simulation of Chemical Engineering Systems" teachers cover more applications of chemical engineering. And for the same I would like to suggest to include books such as "Computational Methods in Process Simulation" by W. F. Ramirez in the syllabus which will give more clarity even for the applications of numerical methods in simulation.
7/22/2019 9:26:42	Dr. Nilanjana Banerjee	Assistant Professor - SG	University of Petroleum and Energy Studies, Dehradun	9638965656	nbanerjee@ddn.upes.ac.in	Modeling and Simulation	In Laboratory work, will there be simulators like ASPEN/HYSIS/PROSIM involved? If yes, then can it be included in the curriculum?	None	None

11/26/2019 23:13:32	Dr. Vyomesh Mansukhbhai Parsana	Assistant Professor	V.V.P. Engineering College, Rajkot	9824174412	vm_parsana@yahoo.com	Applied Chemical Process Thermodynamics	The course content is designed nicely and it is good enough for UG students. However, I would like to suggest you to include group contribution methods since the modern simulators use property packages and often they are based on the group contribution methods when experimental data are unavailable. Though the UNIFAC method is already there in the syllabus, it can be taught that the methods are also available for other thermodynamic properties.	Group contribution methods	Include some more books for readings, such as Poling B.E. "Properties for Gases and Liquids", McGraw Hill, etc.
11/28/2019 12:08:00	Parag Saxena	HOD Chemical Engg	Parul Institute of Technology, Parul University	9924159006	parag.saxena8785@paruluniversity.ac.in	Process Optimization	Syllabus is designed well.	None	None
11/28/2019 12:11:32	Parag Saxena	HOD Chemical Engineering	Parul Institute of Technology	9924159006	parag.saxena8785@paruluniversity.ac.in	Applied Chemical Process Thermodynamics	Syllabus is designed properly and covers all important topics	None	None
11/29/2019 22:05:19	Dr. Vyomesh Mansukhbhai Parsana	Assistant Professor	V.V.P. Engineering College, Rajkot	9824174412	vm_parsana@yahoo.com	Process Optimization	The syllabus is designed nicely.	If non linear programming (NLP) part is not included	more reference books can be added.

								then you can accommodate.	
01-04-2020 14:19	Sasd	dnADKL	lOdhADH	9838448468 73	abcg@abc.com	Good	f	b	c
1/13/2020 14:27:38	Mihir Pravinkumar Shah	Associate Professor	Dharmsinh Desai University	9427493658	mpshah@ddu.ac.in	Process Equipment Design - 1	I would like to share my feedback based on my little experience in design. I think Flow sheeting, selection material ,coating and code & standard should be part of PED II(Mechanical Design) when it will be taken in final year. Design variables can be elaborated in a more detailed way for selection/assumption of right variables.	Evaporator or dryer can also be added along with cyclone and decanter. One can also use computer especially excel for equipment design as part of laboratory that will make calculation more interesting to the students. In book section Ludwig will be good choice for equipment design. Brownell-young and Joshi can be shifted to PED II section.	Rest all are fine. Wish you best luck for the subject.

Employees

Timestamp	Name of the Organization	Name of Contact Person:	Designation	E-mail Address	Name of Subject	General Comments on Syllabus	(2) Suggestion for New Subject	Suggestions for new topics	Any other suggestions relevant to Syllabus
7/20/2019 11:57:16	Linde Engineering	Nilesh Mangukia	General Manager	nilesh.mangukia@linde.com	Modelling and simulation	The syllabus looks reasonably well prepared	Piping & Instrumentation diagram, hydraulics, heat and mass balance	More insights into physical properties, for reactor model effect of catalysts, outputs from simulation (e.g. process data sheets), iteration to find most optimum process design	Students shall understand the reasoning of entry of different parameters in the simulation tool, able to interpret the results and able to optimize the results. Data entry into simulation is easy but understand the process fundamentals is much more important.
01-05-2020 10:33	Sadara Chemical Company	Mehul Chauhan	Senior Process Engineer	Mehul.Chauhan@sadara.com	Process Equipment Design	I reviewed Third Year/Semester VI syllabus. My initial thought was to split basics of all unit 1, 2, 3,4,5 in Semester V & in Semester VI to include more of actual design. This would provide more time to students to learn basic, codes and standards, theories in sem V & actual design in Sem	It would be interesting to know what is covered in thermodynamics and advance thermodynamics. Since, physical properties of refinery chemicals and downstream chemical plants are completely different. So, very important is thermodaynamics is covered in great details. I am sure it is part of other units, still wanted to mention because it is very	It would be important to include compressors and pump as basic. I did not see compressor cycle in the syllabus. Need to teach basic compressor systems with different refrigerants at least propylene-22, CFC or any other.	I would remove distillation as chapter even in this semester and cover more various flow meter design, control valve design, pumping network design in semester five and six. Logic for this is during process engineer life process engineers need to troubleshoot pumps, control valves, flow measurements, pressure problems more often. While distillation column design may be once in 5 - 10 years. By the time they are out of collage and start

						VI. Overall, i found course is relevant to chemical engineering students and would cover most of aspects of process engineering.	relevant for process industry.		distillation column design, they will forget what they learn in collage. It would be more relevant to teach, control valve, hydraulic (nitrogen, water, air etc) system network design for whole plant, codes and standards, thermodynamics in greater detail. Distillation column/Absorber sizing can be part of 7th semester. Additionally, Let me also mention to include following topic "How to trouble shoot common process plant problems in 8th semester". You can include common process plant problems in syllabus and teach them how to solve them. Basically purpose of collage is to make them ready for process industry not to know a lot of theory.
01-10-2020 12:42	SPIE Oil & Gas Services	Harshadkumar Patel	Head, Training & Development	harshadkumar.patel@spie.com	Process Equipment Design	Reviewed syllabus and I have following points	N.A.	i. Hydro test – Water Specification, Calibration of PG, Witness Form and Punch Listing	reference book Shell & Tube Heat Exchanger Design – Rajiv Mukherjee – Engineers

								ii. Tightness test of equipment - Gross Air Leak Test at 7 Kg and Operating Pressure iii. Piping & Equipment Preservation, Clean Build up concept iv. Chemical Passivation, Chemical Cleaning of equipment, Amine Degreasing etc v. Flange Management – Specification, Rating etc vi. Gasket Management – Specification, Rating, Serration etc vii. Short & Long Bolting viii. Equipment Inspection	India Ltd should be added
01-10-2020 12:50	HONEYWELL, PUNE	Jagdish Rachh	Sr. Manager, Technical Team	rachhjd@hotmail.com	PED	Well cover topics	good from content covered	explore if some heat exchangers can be added like compact, air cooled, etc	If two subject are offered for equipment design, many other equipments, mechanical design etc can be covered
01-10-2020 12:54	HONEYWELL, PUNE	J.D.Rachh	Sr. Manager,	rachhjd@hotmail.com	Polymer Technology	syllabus found ok	for era of single use plastic, very useful to students	some biodegradable polymer related topics can be added	almost topics covered

			Technical team						
01-10-2020 12:56	SPIE Oil & Gas Services	harshad kumar patel	Head, Training & Development	harshad kumar.patel@spie.com	Polymer Technology	very good but brief syllabus	nil	polymer manufacturing can be included for some well known polymers	good one
1/16/2020 12:55:06	M/s. Meghmani Organics Limited	JITENDRA SAMECHA	EXECUTIVE ENVIRONMENT	jitendra.samecha@meghmani.com	Air Pollution Control Engineering	All over the content of syllabus is good enough for APCE	Legal Requirements w.r.t. Air Pollution	Unit-III 1-COMPLIANCE REPORTING PROTOCOLS FOR ONLINE CONTINUOUS EMISSION & EFFLUENT MONITORING SYSTEMS 2-Carbon Credit and Trading Unit-V Ash / Dust Handling and its effects,	N.A
1/16/2020 14:49:17	Ahmedabad municipal corporation	Gautam Pandey	Environment Engineer	gautam pandey.amc@gmail.com	Air pollution control engineering	Content of subject is good	Nil	Advancement in control equipment should be incorporated	N.A.
1/16/2020 20:33:25	Oizom Instruments Pvt. Ltd.	Ayyan Karmakar	Project Manager	ayyan@oizom.com	Air Pollution Control Engineering	The syllabus is good and gives a wholistic approach of Air pollution & necessary control measures.	No	1. The subject can include Global air quality standards as well as effective control measures applied globally. 2. A brief on health hazards due to	Practical demonstration of sites showcasing advanced technologies and using newer methods to curb air pollution.

								excessive air pollution may be covered 3. Data driven policy changes to control air pollution (examples: Delhi government odd even rule)	
1/16/2020 20:48:34	Oizom Instruments Pvt. Ltd.	Ayyan Karmakar	Project Manager	ayyan@oizom.com	Industrial Wastewater Treatment	The syllabus is well structured.	Unit 1 Introduction may have more time and include Hydraulics of WWTP Unit 3 Since the WW Treatment operations will be more or less on same lines, less time may be needed. More focus is required to understand the industry-wise parameters of effluent. Unit 4 May need more time as there are many advances in WW treatment options today in the market ranging from RO, FO, TMF, submerged MBR, Clarifiers, diffusers.	Sampling techniques may be covered along with advances in measurement of water quality. Mass Balance of a WWTP may be useful and a good exercise to understand. Membrane-based systems may be given importance since ZLD is now the trend with industries. Reverse Osmosis systems are a full-fledged subject in itself. Also, an introduction to Multiple effect evaporators as part of the technology may be covered.	No
1/17/2020 2:16:57	Savita Fine Chemicals	Practical demonstration of sites showcasing advanced technol	Proprietor	manish212patel@gmail.com	Air Pollution Control Engineering	Syllabus covers most of the topics related to Air Pollution. I have suggest few topics, which are not covered in the syllabus.	Industrial Safety including Risk assessment, Mitigation and Risk reduction Measures, On Site Emergency Management Plan, Off Site Emergency Management Plan	Unit IV Include Fugitive Emissions Control Techniques Latest Air Pollution Control Techniques as per AP-42 (US EPA) Air emission Factors. This is very useful	No Comments

		ogies and using newer methods to curb air pollution.						during the designing of APCD. Unit III: Meteorology measurement of Wind speed, wind direction, Relative humidity, wet & Dry bulb temperature, Rain fall, Cloud cover etc., International and National Protocols and treaties to control air pollution Policies, guidelines and the legislation related to air pollution Control Assignments based on current scenario like, Clean Delhi Green Delhi mechanism, Electric Cars for Zero direct emission, Mass Transport to reduce Air Pollution etc.,	
2/24/2020 10:48:11	Oizom Instruments Pvt. Ltd.	Ayyan Karmakar	Project Manager	ayyan@oizom.com	Air pollution control techniques	The syllabus seems good as all the aspects are covered.	No	Current development in air pollution should be included.	APCT syllabus seems ok
9/18/2020 20:22:43	Adani Power mundra ltd	Keshave swarnkar	Associate Manager	keshave.swarnkar@adani.com	Chemistry	Ok	No	No	No

AY: 2018-19

Alumni

Timestamp	Name	Roll No	Designation	Organization	Mobile Number	Email Address	Course	Feedback on the Syllabus	Suggestons	Modifications	Remarks if any
12/16/2018 22:43:15	Y V N S Suvikram	08BCH056	Deputy Manager	Gujarat State Fertilizers And Chemicals Limited (GSFC)	9586782552	yvns_s@yahoo.com	SFO	The course covers all topics that adhere to various industries applying SFO like catalyst manufacturing, grinding rocks in phosphoric acid plants etc.	Not Needed. Our curriculum is complete	Current Topics are sufficient.	More emphasis on interpretations in applications of various critical factors like mixing index and how it shall vary under various conditions.
12/17/2018 3:10:31	Nishant Tailor	09BCH018	Senior Executive Engineer	Linde Engineering India Pvt. Ltd	+91 9510014112	nishant.che@gmail.com	SFO (Solid Fluid Operations)	The syllabus is appropriate for a 3rd semester student. Videos/visual aids along with theory will help a student to quickly grasp the concept. This will make even the lab practicals more effective.	Restructuring of syllabus for CPI to reduce number of processes and include block diagram, PFD and P&ID in the subject. Material science can help students understand different MOC like carbon steel, low temperature carbon steel, stainless steel, alloy steel, etc.; material behavior like brittle fracture, elasticity.	The self study topics should include recent developments related to SFO, articles in magazines, etc. This will encourage the students to read materials outside the textbooks.	According to proposed structure, SFO, FFO & HTO will be offered in 3rd semester. There should be one industrial visit at the end of the semester where the students can be shown operations / equipment only related to these 3 subjects. The student should be able to relate his/her learning throughout the semester with actual operations, trouble-shooting at

											the end of the semester
12/17/2018 13:10:03	Yug Saraswat	12bch040	Seeking PhD position	-	7043338707	yug@yugdecor.com	Environmental Pollution Control and Safety Management	All the necessary topics are covered. The idea of including practical experiments is also very good.	Ethics in Engineering	Relevant topics are included in EPCSM syllabus	Transport Phenomena should be a mandatory subject. It is especially relevant for students entering research and design.

12/17/2018 14:26:25	Hitanshu Sachania	12bch025	Research Scholar, MS	Indian Institute of Technology Madras	9978193971	hitanshusachania999@gmail.com	SFO, CPI, and EPCSM	SFO - perfect, EPCSM - redundant, CPI - lackluster	Advanced Linear Algebra, Data Science, Machine Learning, Process Simulation	Based on the current market trends, a major component of computation and mathematics is lacking in our curriculum. Less rote learning and more case studies + term papers/projects (especially for CPI and EPCSM) are required.	-

12/17/2018 22:14:35	Neha Tripathi	09BCH033	Process Design Engineer	Gujarat State Fertilizers & Chemicals Ltd.	9712406592	nehatripathi213@gmail.com	Solid Fluid Operations	Since the topics under the syllabus comprises of variety of industrial equipments the practical part of the subject may include visits at manufacturing sites / operating sites of studied equipments.	Instrumentation & control - Study of P&I diagram, control loops of control valves, use of different types of controller, etc. for insights of DCS operation.	Bins, silos, hoppers design calculations w.r.t angle of repose may be included.	Experiments in the laboratory can be given a little higher weightage which will add to its actual objective of clearing the fundamentals of the actual theory. This will also help in proper maintenance of the old unused laboratory equipments already available.
12/19/2018 12:17:12	Hrishikesh Pandya	09bch020	Senior consultant - process	Proclink Consultancy	9898868090	panhrishikesh@gmail.com	Chemical engineering thermodynamics	Attached with email	-	-	Attached with email
12/20/2018 13:11:30	Manish J. Patel	not remember	Sr. Manager - Safety	Reliance Industries Limited, SEZ, Refinery, Jamnagar	7600829317	Reliance Industries Limited, SEZ, Refinery, Jamnagar	EPC SM	Almost everything has been covered – Brief about MSDS, Industrial Hygiene and Why PSM is important may be considered. Overall content is relevant to industry	NIL	In process safety designs, Pressure relief device plays important role. If we can include PSV sizing, Relief load calculation, Types etc.	NIL

12/20/2018 15:24:22	Chintan Modi	12MCHC14	Asst. Professor	Shroff S R Rotary institute of chemical technology	8866413808	chintan.modi@srict.in	Chemical Engineering Thermodynamics	Introduction chapter can be added just for the basic terms like laws, enthalpy, entropy, Intensive, extemsive properties....	No	Maxwell relations	No
12/26/2018 11:43:41	Nirav Pandya	15mche03	Executive-EHS	Alembic Pharmaceuticals Ltd., API Unit-1, Panelav, Halol	+91 8000204002	niravbp92@gmail.com	EPCSM	OVerall good	1. Process Safety: • It can be a part of Sem. VI or/and VII. • It can be a part of Department Elective subject. • So Chemical Engineer can easily co-relate safety and chemical engineering straightforwardly. Process safety is a vital and extremely demandable stream. 2. Environmental Laws & Liasoning • As a Chemical Engineer he/she may work in safety department. As we know that, now-a-days there is no separate department for Safety & Environment instead it is Health, Safety &	all topics has been covered.	• Industrial Visit: Site visit of any Effluent Treatment Plant (ETP) / Common Effluent Treatment Plant (CETP)/ Solid Waste Management Site/ Treatment, Storage and Disposal Facility (TSDF) in Sem V, VI & VII. • Note: There are many technologies coming up in the field of Environment & Safety which may not be the part of books as the books have almost conventional processes. Due to this, the latest trends are not known to the students; which can be taught by any visit to the site having new

									Environment (HSE). So, he/she must have knowledge about Environmental Acts, laws and Legal formalities which may require to deal with State/Central Pollution Control Board, MoEF.		technology or by the expert lecture.
01-01-2019 11:01	YVNS Suvikram	08BCH05y	Deputy Manager	Gujarat State Fertilizers And Chemicals Limited (GSFC)	9586782552	yvns_s@yahoo.com	YVNS Suvikram	Course covers different industries and widely used products. So it is sufficient.	Not needed	Socially relevant Industries like e-waste disposal, automobile batteries and biofuels etc should be included as they are the next future in 10 15 industries.	No suggestions

01-01-2019 21:32	Pallavi	09BCH036	Research Scholar	Indian Institute of Science	9898065167	pallavidasgupta123@gmail.com	Organic Chemistry	It covers all the fundamental topics and is comprehensive	A few chapters on organometallic chemistry may also be included.	Organometallic chemistry,	Laboratory module may include more experiments apart from functional group identification such as hands on experiments on analytical techniques used extensively in organic chemistry.
01-03-2019 22:31	PARTH SOLANKI	09bch031	Manager	Reliance industries Ltd, Jamnagar	7016906642	parths@live.in	PARTH SOLANKI	Looks very good	Course is just perfect!	Course is just perfect!	No
01-04-2019 17:22	Pallavi	09BCH036	Research Scholar	Indian Institute of Science	9898065167	pallavidasgupta123@gmail.com	Organic Chemistry	It covers all the fundamental topics and is comprehensive	A few chapters on organometallic chemistry may also be included.	Organometallic chemistry,	Laboratory module may include more experiments apart from functional group identification such as hands on experiments on analytical techniques used extensively in organic chemistry.

01-06-2019 11:47	VISHAL D PATEL	13BCH045	CHEMICAL ENGINEER	GUJARAT STATE FERTILIZERS AND CHEMICALS LIMITED	9033900342	vishaldpatel29196@gmail.com	Fluid Flow Operations	Topics covered in Fluid Flow Operation are very useful in terms of industrial job. Concepts those are being taught in the subject with its practical importance and implementation are really helpful in industry during job for dealing with fluids in production. Also idea about types of valves, pumps, compressors, blowers, flows and flowmeters including their industrial importance and application in particular area or situation is very well taught in Fluid Flow Operation course. So overall it is very suitable and well enough syllabus for the students who want to pursue their career in Production at any Chemical Industry.	No	Not required	No

01-06-2019 11:52	Vishal D Patel	13BCH045	CHEMICAL ENGINEER	Gujarat State Fertilizers and Chemicals Limited	9033900342	vishaldpatel29196@gmail.com	PROCESS CALCULATIONS	Concepts taught in Process Calculation subject is very helpful in Production department to declare or to recheck achieved daily production based on consumption of raw material and to find out any abnormality in the plant. Also it helps to find specific consumption of raw materials and utilities. Course is very well taught with suitable examples and calculations to understand each and every topics very well.	No	Not required	No

01-07-2019 09:47	Neha Tripathi	09BCH033	Process Design Engineer	Gujarat State Fertilizers & Chemicals Ltd.	9712406592	nehatripathi213@gmail.com	HTO	We understand the content under the subject head is too vast to be covered in one semester however, it is essential to also try for incorporation of topics such as furnaces consisting of natural draft, forced draft furnaces, etc. shall be useful from industrial perspective. Once the basics of conduction, convection & radiation gets clear it is important to learn the fundamentals of furnace operations, its combustion calculations (carried out in Process calc. subject), excess air calculations, flue gas analysis and its importance from energy point of view will provide a comprehensive knowledge for the subject.	Heat exchanger simulation in softwares such as HTRI can be a part of practicals under HTO which will provide deeper insights for HE.	Glimpse of topics such as design of Plate heat exchangers, kettle reboilers, vacuum condenser system can be tried to be touched upon so students are at least aware of the system during industrial exposure.	All the industrial visits carried out must be enriched with relevant theoretical knowledge of unit operations. Instead of only explaining the process, industry personnel must be told to also introduce students with critical machinery, equipments and valves from not only process point of view but also from operation perspective. Smaller things such as safety valves, rupture discs, steam traps, etc. must be shown so that students develop a complete vision of importance of the subject.

01-07-2019 09:51	Neha Tripathi	09BCH033	Process Design Engineer	Gujarat State Fertilizers & Chemicals Ltd.	9712406592	nehatripathi213@gmail.com	IPC	It is good to see that topic of Computers in Control System consisting of DCS, PLC and SCADA have been introduced in the syllabus.	Simulation softwares for various control logics can be introduced for better clarity of the control philosophy.	a) It is nice that subject covers variety of types of Temp Transmitters, Pressure Transmitters & Level Transmitters. But usually type of instrument is selected by Instrument Engg. in our industry. For a process engineer it is very well important to know the principal of operation of any instrument but instead of covering various types the syllabus should also contain the information	All the industrial visits carried out must be enriched with relevant theoretical knowledge of unit operations. Instead of only explaining the process, industry personnel must be told to also introduce students with critical machinery, equipments and valves from not only process point of view but also from operation perspective. Smaller things such as safety valves, rupture discs, steam traps, etc. must be shown so that students develop a complete vision of importance of the subject.

										of selection of instruments based on working fluid nature such as corrosive, non-corrosive services, phases - gas, solid, liquid, etc., range, set points selectivity, etc. Also, some of the instrument types which have become obsolete nowadays can be eliminated and newly introduced remote measurement devices can be introduced. b) Explanation of topics with reference	

										to a relevant P & I D will be useful to clear the basic understanding of logic controls.	
1/17/2019 23:20:41	Brijesh Saparia	13BCH012	CHemical Engineer	Gujarat State Fertilizers and Chemicals Ltd	9723362035	brijesh.saparia@gmail.com	Process Calculations, Fluid Flow Operations	Process Calculations is one of the subjects which we are required to use daily as an industry person. Conversion of quantities from weight basis to volumetric basis and vice-versa, Changes in the feed rates of a plant according to the prevailing conditions helps us to estimate the production which involves material balances with and without chemical reaction, the requirement of utilities like steam, DM Water etc. are often to be informed beforehand to the utilities section involves the energy balance, the discrepancies in any above ratios helps us	-	-	-

								to identify the reason for the upset condition and concepts for all such calculations are included in the syllabus which helps us to easily apply them. Also such calculations are the basis for setting up any new plant which also becomes a guiding step for the piping and the header designs, estimating the required type of pumps, compressors, designing the cooling towers etc. In a nutshell, the syllabus covers wide applications which can be easily useful for any person pursuing Chemical engineering. Being deployed in a project being commissioned at GSFC, This subject has proved to be very helpful in reviewing various documents related to the pumps,			

								compressors, flow meters provided by various vendors and envisaging out its suitability for the said purpose. Even basic concepts like Bernoulli's Equation, Hydrostatic Equations also helps us to understand the complex piping system used in industry. The content of the subject is well designed and thoroughly taught which helps me to apply the basic concepts very easily and efficiently carry out operations in the plant.			
7/19/2019 14:50:53	Hrishikesh Pandya	09BCH020	Senior consultant-process	Proclink consultancy	9898868090	panhrishikesh@gmail.com	Modelling and simulation	Must required. If elective then make it mandatory as companies are going for Industrial revolution 4.0 where modelling is basic	Basis information on: 1. Artificial intelligence 2. Machine learning Also make all students compile their model into one model and see how making any changes affects system equilibrium or parameters.	Basics on tools available on market for modelling and simulation. Can be part of seminar or self presentation.	-

7/19/2019 15:09:56	Jimeet	14bch046	SHIFT FIELD ENGINEER	Reliance Industries limited	8320994348	14bch046@nirmauni.ac.in	Modeling and simulation	Really handy to face real world engineering problems	Practical Industrial scenarios and troubleshooting	-	Can increase the number of industrial scenario exposure questions and creating forced process deviations with timed troubleshooting to test agility and understanding
#########	Dharamashi Rabari	06MCH010	Assistant Professor	Ahmedabad University	9925145763	dharamashi.rabari@ahduni.edu.in	Chemical Reaction Engineering-1	It's well designed that covers the major portion of chemical reaction engineering	Multiphase Reactors can be floated as technical elective.	Nil	Nil
#########	Priyank D. Khirsariya	12MCHC10	Assistant Profesor	V.V.P.ENGINERING COLLEGE,RAJKOT	9033367871	priyankkhirsariya@gmail.com	Chemical Reaction Engineering-I	Excellent	Yes	NON IDEAL FLOW in detail (TANK IN SERIES AND DISPERSION MODEL WITH CHEMICAL REACTION)	VERY GOOD

Teachers:

Timestamp	Name	Designation	Institute	Phone No	Email	Subject for which you are giving response	Comment	Suggestions for new topic	Any suggestion relevant to syllabus
12/20/2018 1:18:23	1	Assistant Professor	BITS Pilani - Pilani Campus, Pilani	9950676506	amitjain@pilani.bits-pilani.ac.in	Environmental Pollution Control and Safety Management	The course covers the essential concepts of environmental pollution control and process safety. The environmental pollution control part addresses the major areas of Air, Water and Land pollution, which is good enough for a combined course on environmental pollution and process safety. As far as process safety is concerned the content is well designed and seems to be wide enough for a semester.	Following topic are suggested and may possibly be included the course: Dispersion modeling in EPC (Reference; Book by Davis and Cornwell), source modeling & relief devices in process safety (Reference: Book by Crowl and Louvar).	The course is pretty wide and may possibly be divided in two courses "Environmental Pollution Control" and "Process Plant Safety". Some of the contents may be dropped off to make it more appropriate as an undergraduate course or an elective at graduate level.
12/20/2018 13:05:09	Dr. Vimal Gandhi	Associate Professor	Department of Chemical Engineering, Dharmsinh Desai University,Nadiad-387 001	9427890685	zvg237@gmail.com	Solid Fluid Operations	The syllabus is well designed from industrial view point.	NIL	You may consider Agitation topic under the chapter of “Agitation and Mixing” including scale of agitated vessel problem, which may useful to them from Industrial view point as well as preparation of competitive exam like GATE. Ignore this suggestion if you already consider this topic under Fluid Flow Operation.

12/20/2018 13:07:25	Dr. Vimal Gandhi	Associate PRofessor	Department of Chemical Engineering, Dharmsinh Desai University,Nadiad-387 001	9427890685	zvg237@gmail.com	Environmental Pollution Control and Safety Management	As far as safety management portion is concern, the syllabus is well designed from industrial view point. In Environmental Pollution control, syllabus is up to date but requires detailing of sub topics. I personally feel that 3 Hrs lecture hours may not sufficient to give justification of the each topic under one subject - 'Environmental Pollution Control and Safety Management'.	In my view, need to be offer separate 'Environmental Pollution Control 'subject at UG level.	-
12/20/2018 16:44:31	Dr Amit Jain	Assistant Professor	BITS Pilani - Pilani Campus	9950676506	amitjain@pilani.bits-pilani.ac.in	Solid Fluid Operations	1. Course content is up to the mark. 2. Covers all the essential topics involving solid fluid interaction. 3. Theory supported by laboratory experiments is essential for the better understanding of the course.	None	None
12/20/2018 16:46:28	Dr. A. P. Vyas	Dean, School of Engineering	School of Engineering	9898284298	amish.vyas@indrashiluniversity.edu.in	Chemical Engineering Thermodynamics	The syllabus is too lengthy to cover in three hours per week of teaching scheme.	The topics covered are already on lengthy side considering the time available to cover the existing syllabus.	If possible, either reduce the syllabus or at least one more lecture hour per week must be added.

12/20/2018 16:50:15	Dr Amit Jain	Assistant Professor	BITS Pilani - Pilani Campus	9950676506	amitjain@pilani.bits-pilani.ac.in	Chemical Process Industries	Syllabus covers all the essential concepts applied in a process industries.	It is suggested to include a topic on "Pharmaceutical process industry". It will open the opportunities for chemical engineers to in pharma industry.	Very framed and covers all the essential concepts.
12/31/2018 14:06:15	Dr. Nishant Pandya	HOD, Department of Chemical Engineering	BITS Pilani, Dubai Campus	971556279679	pandya.nishant@gmail.com	Heat Transfer Operations	Add textbook / reference book: 1. J. P. Holman, Heat Transfer, 10th edition, McGraw-Hill, 2010 2. Yunus A. Cengel, Afshin J. Ghajar, Heat and Mass Transfer, Fundamentals and Applications SI Units, 5th edition, McGraw-Hill, 2015	add a topic under Thermal radiation: Radiation network add one lecture on -- Recent advances in heat exchangers	I believe that the lecture distribution is as following: Conduction - 30 % Convection - 30 % remaining topics - 40 %
12/31/2018 14:14:27	Dr. Nishant Pandya	HOD, Department of Chemical Engineering	BITS Pilani, Dubai Campus	971556279679	pandya.nishant@gmail.com	Instrumentation and Process Control	I believe that lecture distribution is 50 % Control system and 50 % Instrumentation.	Include a topic on recent advances in measurement of Temperature, Pressure and Level.	no

01-01-2019 13:28	Bharat Modhera	Assistant Professor	Department of Chemical Engineering Maulana Azad National Institute of Technology Bhopal - 462 051 (M. P.)	7869494554	modherab@manit.ac.in	HTO	Balanced Syllabus	Heat Exchangers types can be added	Some books can be added like J.P. Holman
01-01-2019 13:31	Dr. Bharat Modhera	Assistant Professor	Department of Chemical Engineering Maulana Azad National Institute of Technology Bhopal - 462	7869494554	modherab@manit.ac.in	Instrumentation & Process Control	Syllabus seems okay for BTech students	Some instruments can be added in pressure and level measurement.	More weightage to be given to controllers and control valve during teaching

			051 (M. P.)						
01-01-2019 13:42	Ms. Mausumi Mukhopadhyay	Head	Department of Chemical Engineering SVNIT, Surat, Gujarat	912612201641	hod@ched.svnit.ac.in	Heat Transfer Operation	syllabus is fair in clarifying the teaching goals	see for BTech students new topics like variable thermal conductivity can be included. Some heat exchangers like multistream heat exchangers, and some recent developments can be included.	some laboratory excerisizes can be carried out to bridge the gap between institute and industries
01-01-2019 14:48	Jigesh Mehta	Assistant Professor	School of Engineering, P P Savani University	8460436750	jigesh.mehta@ppsu.ac.in	Heat Transfer Operation	Instead of scheme of 2+1+2 (Lecture+Tutorial+Lab), scheme should be 4+2 (Lecture+Lab). I think tutorial work(problem solving) can be performed in the lecture hours only.	Syllabus is perfectly designed. No suggestion.	Na
01-01-2019 14:55	Jigesh Mehta	Assistant Professor	School of Engineering, P P Savani University	8460436750	jigesh.mehta@ppsu.ac.in	IPC	Need more precise revision	1. Introduction to Process Control. 2. Laplace Transform. 3. Stability Criterion Unit. 4. P&ID diagram study.	If possible Add Z-transform (Advance control system)

01-01-2019 19:11	Dr. Kuldeep R Sharma	Director/ Principal	Parul Institute of Applied Sciences and Research, Ahmedabad, Parul University.	9825373583	kuldeep.sharma@paruluniversity.ac.in	Organic Chemistry	It's perfectly aligned with the current requirements.	Nothing, as it's perfect.	No
01-02-2019 13:36	Dr. Bharat Modhera	Assistant Professor	Maulana Azad National Institute of Technology, Bhopal	7869494554	modherab@manit.ac.in	Instrumentation and Process Control (CH-503)	New topics with one book are suggested.	Mathematical Modeling considerations for control purposes, Special Controls: Cascade - feed forward and ratio control - dead time compensation, Flow measurement, Viscosity measurement, Moisture and humidity measurements. Conductivity meter-pH meter, Analytical instruments – Liquid chromatography – HPLC – Mass spectroscopy - Computer aided analysis – process	reference book suggested: Smith, C. A. And Corripio, A. B., “Principles And Practice Of Automatic Process Control”, 2ndEdn., John Wiley, New York, 1997.

								instruments and automatic analysis	
01-02-2019 13:51	Dr. Bharat Modhera	Assistant Professor	Maulana Azad National Institute of Technology, Bhopal	7869494554	modherab@manit.ac.in	Heat Transfer Operations (CH-302)	new topics and books are suggested.	Combined heat transfer by conduction, convection and radiation	Book: (1) Kern D. Q.,"Process Heat Transfer", Tata Mc Graw-Hill Edition, 1997; (2) Coulson, J.M., Richardson, J.F.,"Chemical Engineering",Vol. I.,Pergamon and ECBS, 1970
01-02-2019 14:57	R. K. Mewada	Professor	Lukhdhirji Engineering College, Morbi	9726939324	rkmewada.gec@gmail.com	CPI	Syllabus is fine and no further changes are recommended.	NA	NA
01-02-2019 17:56	Dr. Bharat Modehra	Assistant Professor	Maulana Azad National Institute of Technology, Bhopal	7869494554	modherab@manit.ac.in	CH503 - Instrumentation and Process Control	New topics are suggested	Measuring devices for flow and Viscosity	not required
01-04-2019 09:54	Prof. Beena Sheth	Associate Professor	VGEC	9228294303	krishna2406@yahoo.com	Process Calculations	Found OK	-	-
01-04-2019 09:56	Prof. Beena Sheth	Associate Professor	VGEC	9228294303	krishna2406@yahoo.com	Fluid Flow Operations	Found ok	-	-

01-05-2019 15:18	Dr. Swati Sharma	Professor, Chemical Engineering	Sarvajanik College of Engineering & Technology, Surat.	7016847323	u2swati@gmail.com	Mass Transfer Opertaions I	All necessary topics pertaining to mass transfer principles for UG students are covered and hence perfectly fine.	NIL	For self study topics, a presentation by student groups can be staged which can hone their presentation skills and also clear their doubts if any with faculty-class interaction. Alternatively, relevant research papers could be assigned to students' group for in-depth understanding/presentation of updated literature in the field.
01-05-2019 17:29	Dr. Chetan M. Patel	Asst. Prof.	SVNIT - SURAT	919825471122	cmp@ched.svnit.ac.in	Mass Transfer-I	Allotment of 3 hours for Unit 1 (Introduction and Classification of Mass Transfer Operations) very less. At least it should be increased to 5 hours.	Diffusion in solids should be covered	Chapter on Distillation should be included in Mass Transfer-I instead of Mass Transfer-II.
01-06-2019 19:13	Dr. Vyomesh Mansukhbhai Parsana	Assistant Professor	V.V.P. Engineering College, Rajkot	9824174412	vyomesh.parsana.ch@vpedulink.ac.in	Mass Transfer Operation-I	I have gone through the syllabus of Mass Transfer Operations - I which is provided in the attachment. The coverage of the topics is found adequate. However, this subject is taught in two parts so I would like to mention the topics which are not covered in this part. Humidification / Dehumidification, Crystallization, Drying, Adsorption, Ion Exchange, Distillation These topics, as usual,	The below mentioned topics can be included, if feasible: 1) Membrane processes 2) Chromatography	No.

							should be covered in part II of this subject.		
01-07-2019 04:23	Nishant Tailor	Sr. Executive Engineer	Linde Engineering India Pvt. Ltd	9510014112	nishant.che@gmail.com	Mass Transfer Operation - I	Theory and practical sessions should be synchronized and harmonized such that students can easily relate theory taught in class with actual experiments conducted in laboratory. Secondly, use of visual aids and animations during theory classes will help the students effectively relate with the process.	Emphasis should also be given to problems faced by industries employing processes which use gas absorption, liquid-liquid extraction & leaching and its troubleshooting.	In self study, students can also be asked to read journals, magazines, etc. to acquaint themselves with recent development in mass transfer operations.
01-08-2019 09:59	Manish Shah	process design consultant	Own Business	9429926447	mvshah027@gmail.com	MTO1	Leaching process is used rarely in the industry; thus NOT much useful.	Compared to Gas Absorption; Liquid-Liquid Extraction process used less frequently. Thus Leaching can be removed from the course. Liquid-Liquid Extraction should be cover in short. Following topics should be added in MTO1 1. Acid / Sour gas treatment 2. Gas dehydration Acid gas treatment and Gas dehydration are very common in Upstream oil and gas, downstream refineries as well	Acid / Sour gas treatment https://www.chiyodacorp.com/en/service/upstream-gasprocessing/acid-gas-removal-agr/ https://en.wikipedia.org/wiki/Amine_gas_treating Gas dehydration https://petrowiki.org/Dehydration_with_glycol https://en.wikipedia.org/wiki/Glycol_dehydration

								petrochemicals. Reading and teaching material for above topics are readily available on internet as well books are also available. Thus students will learn practical process / technology and preliminary design of the system. GPSA Engineering data book will be very useful for above and other topics.	
01-12-2019 21:04	Chintan Shah	Heat Transfer Manager	Nirma Institute of Technology	6753027	chintan9882@hotmail.com	Mass Transfer Operations-1	NA	None	None

1/13/2019 12:50:43	NikhilShah	Research Associate	Torrent Pharmaceuticals Ltd -R&D Centre	9974445325	nikhilbk87@yahoo.com	Mass Transfer Operations-I	Following topics should alsobe added in course structure: 1) Introduction: Ficks first law, Concept of N & J Flux 2) Interphase Mass Transfer: Mass transfer in laminar and turbulent regions, 3) Gas absorption: Ventury scrubber, Wetted wall towers, spray towers, Packed Towers, Packed tower internals, Different types of packings and their selection criteria, mass transfer coefficient for packed towers, Tray tower vs. Packed tower 4) Extraction:Ternary liquid-liquid equilibrium and tie line data, Applications of liquid-liquid extraction 5) Leaching: Rate of leaching, Recovery of solvent vapors, Application of leaching Suggested reading: • Coulson And Richardson's Chemical Engineering. Vol I & II, Asian Books Pvt Ltd, 1998.	Crystallization is included in MTO-II ?If not it should be added as it plays important role in Pharma Industry.	No

1/16/2019 14:22:08	Dr. A. P. Vyas	Dean, Prof. & Head - Chemical and Biochemical Engineering	School of Engineering, Indrashil University	9898284298	amish71in@gmail.com	Mass Transfer Operation-I	Self study material can be comprised of recent practices in Industry. Number of hours per week are not sufficient to cover the syllabus in depth.	Eddy diffusion part is not covered in Unit-I. That can be covered to see the comparison of Molecular and Eddy diffusion.	Under Interphase Mass Transfer, importance of Operating line, interpretation of trend of operating line for countercurrent and co-current processes may be studied.

Employees

Timestamp	Name of the Organization	Name of Contact Person:	Designation	E-mail Address	Name of Subject	General Comments on Syllabus	(2) Suggestion for New Subject	Suggestions for new topics	Any other suggestions relevant to Syllabus
12/15/2018 10:37:39	SPIE Oil & Gas Middle East LLC - Kuwait Establishment Former Adani Ports & SEZ Ltd	Harshadkumar Patel	Procedure Development Head @ SPIE & Former COE - Technical Training Head	harshadpinki@gmail.com	CH303 Solid Fluid Operations & CHXXX Environmental Pollution Control and Safety Management	Nothing	IOT in Chemical Engineering (Project Based Subject) to be added and student to be exposed to some of the chemical engineering equipment parameter tuning with mobile application for laboratory equipment. it should done in collaboration with IT / Computer students to make it multi disciplinary.	CH303 Solid Fluid Operations - Add Membrane separation like RO, UF, NF (widely used in Demineralization of sea water for boiler feed water. CHXXX Environmental Pollution Control and Safety Management - Add ISO 14001 clauses, Audits, auditors quality, writing NC etc, HIRA – Kinny & fine method for risk mitigation to be incorporated, BOW tie method etc to be part of syllabus if there is enough time available. Add safety devices like – Oxygen meter, Toxic gas detectors – H2S responders, Interlocks and its case studies	Angle of repose, Heap for safe storage of solids, Head during monsoon, Monsoon protection of equipments etc concepts are to be covered Shell Gas, Gas to Liquid and regassification to be added as subject as many opportunity coming up in shell gas. Safe Storage and transportation is very important. India is yet to explore shell gas reserves.
12/17/2018 12:27:45	GSFC LTD.	Bipin J Patel	Manager	bipinjpatel@gsfcltd.com	SFO	It is sufficient but can be improved.	Materials Science can be added.	Few topics of material science can be added to the course as per relevancy to content	Practical approach to critical factors like mixing index to be taught
12/17/2018 12:31:18	GSFC LTD.	Bipin J Patel	Manager	bipinjpatel@gsfcltd.com	EPCSM	It is sufficient and can be	Not any	Explain the impact of pollution's according to present scenario in Delhi or discharge	Not any

						improved.		of industrial chemicals to water bodies or climate conventions.	
12/18/2018 1:48:02	Linde Engineering India Pvt Ltd	Nikunj Parekh	Deputy Manager	nikunjparekh2007@gmail.com	Process and Plant Safety	most fields covered	see (4)	At least 80hr or so for safety engineering: This should address Safety Valve sizing, Fire Protection, Explosion Protection, Important standards like NFPA, API, OISD, IS standard, IEC, ASME etc.	Following books can be included or even kept as first book for reference for respective subjects 1) Cengel and Boles for Thermodynamics 2) Stephanopoulos for Chemical Process Control 3) Cengel and Boles for Heat transfer 4) Lee's loss prevention
12/20/2018 19:33:58	DRAGON OIL TURKMENISTAN LTD	KALPESHKUMAR RAVAL	HSE Superintendent	ravalkb@gmail.com	Environmental Pollution Control and Safety Management	Overall syllabus is comprehensive and detailed for Chemical Engineering point of view. But required more Industrial Chemical Engineering	This subject shall be part of each semester from fourth and onward for all.	Following topics can be added. Safety Engineering / International and national Accidents and Chemical Accidents in details i.e. Bhopal disaster, Chernobyl, Flixborough disaster, Seveso Disaster, Gulf of Mexico Accident, Disaster Management Plan, Emergency Response Plan, Sustainability , Run Away Reactions, Explosive chemical reactions in the industries and necessary safety measures etc	Keep continue exposure to the Chemical industries by regular industrial visits and calling industrial faculties. Also, students shall attend few basic Safety certifications like IOSH-Managing Safely certification from UK. This will definitely help to fresh graduate to go to Industry with required international certificate which other university graduates don't have. If need any more information, I

						related safety aspects. Chemical Engineering related problems in the Industries can be added because now days Chemical Engineers are widely preferred as Safety Engineer hence detail about Industrial Safety can be added.			can share during visit to India.
12/27/2018 10:42:39	CSIR-National Chemical Laboratory, Pune	Dr. Nilesh A. Mali	Scientist	na.mali@ncl.res.in	Chemical Engineering Thermodynamics	Syllabus is well designed and covers	Process Design Principles	Programming for solving thermodynamics calculations can be incorporated as assignments.	Assignments for solving examples realted to process industry can be added.

						most of the important topics in chemical engineering thermodynamics.			
12/31/2018 11:04:54	Honeywell Process Solutions	Dr Nimish Shah	Asso. Professor	nimish.shah@nirmauni.ac.in	HTO	Balanced one	no suggestions	- Need to add introduction to different types of industrially important heat exchangers like Air Cooler, Fired Heater, Plate-type Heat exchanger, Spiral tube exchanger, Multi stream exchangers (used for LNG) - Overview of Heat Transfer fluids, applications and advantages	nil
01-02-2019 17:54	Clariant India Ltd	Hiten Mehta	Head Application Development	Hitens.mehta@clariant.com	Organic Chemistry	The syllabus covers all topics which are essential as Basic	Most common subjects are already covered and in-depth knowledge of same will help fresher to serve industries in the best possible way	Majority topics are covered in subjects which are sufficient	Please maintain the same syllabus and motivate students to remain curious to learn more of these in detail through modern reference books.
01-03-2019 16:28	Intas Pharmaceuticals Ltd.	Dr. Hemant H. Gadape	Deputy General Manager	hemantgadpe@gmail.com	Organic Chemistry	The syllabus covers most of the topics but	The curriculum does not contain any Analytical Chemistry part; which is really required for R&D and manufacturing/production.	Few suggestions are as follows: 1. Add anthracene in poly-nuclear aromatic compounds. 2. Add orgnao-metallic compounds of Magnesium and Lithium in alkyl halides	Same as above point number 3.

						required some additions.		3. Remove Co-enzymes, Chloroform, Carbon tetrachloride and acetic anhydride. 4. Rearrange the contents in Alkene, Alkyl halides and Chemistry of Heterocyclic compounds.	
01-04-2019 09:59	Linde Engineering	Shri Nilesh Joshi	Deputy Manager	nilesh.joshi@linde.com	Fluid flow operations	Fluid flow operation is extensively used in design and engineering industries. Pressure drop calculations, pipes, pump/compressor and control valves are important topics.	I am not sure if two lectures would suffice the contents, but if it does, I would suggest to include the following topics: 1. Pressure drop across the various elements of pipes e.g. pipes, bends, valves etc. 2. Hydraulics calculation to determine line size and control valve size and specification	-	-
01-04-2019 10:00	Linde Engineering	Shri Nilesh Joshi	Deputy Manager	nilesh.joshi@linde.com	Process Calculations	As per B.E degree required	-	-	-

						syllabus is aptly covered . I don't see the necessity to add any further detailed topics.			
01-04-2019 10:08	Aksh Optifibre Ltd.	Shri Harpal Singh	Process leader-Operations Excellence	hsingh@akshoptifibre.com	Process Calculations	I can see that the syllabus covers relevant topics and is comprehensive.	-	Unsteady state operations may be studied at post graduate level	-
01-04-2019 10:10	Aksh Optifibre Ltd.	Shri Harpal Singh	Process leader-Operations Excellence	hsingh@akshoptifibre.com	Fluid Flow Operations	The syllabus seems to be well prepared for BE level considering research as well as industry.	Process Economics in higher semesters	-	-
1/22/2019 11:16:52	Honeywell Process Solution	Bhargav	Process Engineer	Bhargavkumar.Parekh@	HTO	Balance syllabus	Nil	Some more Heat Exchangers can be accommodated	Overall good designed syllabus

		Parekh		Honeywell.com					
1/22/2019 11:21:47	Honeywell Process Solution	Bhargav Parekh	Process Engineer	Bhargavkumar.Parekh@Honeywell.com	IPC	Balanced syllabus	Nil	- end to end implementation of equipments after designing like integration with dcs, plc etc - performance optimization of refinery equipments	Nil
1/22/2019 11:30:04	Honeywell Process Solution	Jagdish Rachh	Manager - Process	Jagdish Rachh <rachhjd@hotmail.com>	IPC	Overall good syllabus covering almost topics for B.Tech students	nil	See if controller tuning can be include	nil

Parents

Timestamp	Name of Student	Roll No.	Name of Parent	Email	Phone	Name of Subject	(1) General comments	(2) Suggestions for new subjects	(3) Suggestions for new topics	(4) Any other suggestions relevant to Syllabus
1/4/2019 9:50:21	Mr. Meet Sheth	16BCH156	Shri Manish Sheth	msheth2002@gmail.com	9879061975	Fluid Flow Operations	The proposed subjects are very useful to the students. These gives a good opportunity to students for getting knowledge in line with the industrial requirements.	At present no new subject proposed.	Same as above	Already covered required information for updating the knowledge.
1/4/2019 9:52:02	Mr. Meet Sheth	16BCH156	Shri Manish Sheth	msheth2002@gmail.com	9879061975	Process Calculations	Process calculation is a heart of the operating industries. It gives a lots of learning to students to calculate material balance, conservation of natural resources i.e. Water, Oil, and Energy.	At present no new subject proposed.	Same as above	Nothing
1/4/2019 21:17:07	Dhananjay Dileep	16bch013	Dr Dileep Srinivasan	dhananjaydileep97@gmail.com	8980046343	Chemical Process Industries	The Course is pretty exhaustive	Advanced Process Control	Metallurgy, cement industries can also be incorporated	Every process should be analyzed in depth making students realize the importance of each step in the process
1/4/2020 14:17:43	TEst	00BCH023	XXX	abc@gmail.com	9839383937	APCE	Good	NA	NA	NA

AY 2017-18

Nirma University
Institute of Technology
Chemical Engineering Department

Minutes of meeting for discussion on revision in curriculum of Chemical Engineering held on 09:15 a.m. at HOD's Cabin, A Block on March 9, 2018.

Members present:

1. Dr. Jayesh Ruparelia, Professor and Head, Chem Engg Dept, ITNU
2. Dr. S. S. Patel, Professor, Chem Engg Dept, ITNU
3. Dr. R. K. Mewada, Professor, Chem Engg Dept, ITNU
4. Dr. M. H. Joshipura, Professor, Chem Engg Dept, ITNU
5. Dr. V. J. Patel, Associate Professor, Chem Engg Dept, ITNU
6. Dr. Nimish Shah, Associate Professor, Chem Engg Dept, ITNU
7. Dr. Sachin Parikh, Professor and Head, L.D. College of Engineering, Ahmedabad
8. Mr. Shail Chudagar, Managing Director, Intas Pharmaceuticals, Ahmedabad
9. Mr. Nishant Tailor - Alumni, Linde Engineering India Ltd., Vadodara
10. Mr. Nandan Chhatbar, Student and CheSA President

Head of the Department initiated the meeting and informed all about the agenda of the meeting. The following points were discussed action was taken wherever necessary.

- The meeting was held to take view of stackholders and experts on proposed curriculum.
- Department proposed syllabus of the subject "Introduction to Chemical Engineering" to be offered in first year, and tentative structure for Semester III to VIII.
- Shri Nishant Tailor opined that glimpses PFD & PID should be included in "Introduction to Chemical Engineering".
- Dr. Sachin Parikh, inquired about PED-I & PED-II subjects. HoD informed that both subjects are now in one subject PED and lab is named as Design laboratory.
- Dr. Sachin Parikh commented that Economics subject is offered in Sem. III, is in very junior level. He also added that two lectures of Fluid Flow Operation is very less. HoD informed that faculty can teach / discuss numerical during tutorial session.
- Discussion held about newly added subject Material Science in Sem. IV and it was decided that Material Science syllabus to be framed such that it must incorporate latest trends in the field of material science.
- All the members felt that in semester III, Maths for Chemical Engineering should be renamed as 'Chemical Engineering Computations' and relevant examples to be taught and Laboratory to be added in place of tutorial.
- The matter of more experiments in CPI was discussed, HoD informed that in addition to experiments of CPI, the experiments of Hydrocarbon Technology would also be incorporated in it.
- Students added that syllabus and laboratory exercises of CPI is required to be reframed so that Laboratory exercises can be correlated with theory. Mr. Nishant Tailor opined that the number of obsolete topics & their processes are to be removed and latest processes to be included. HoD informed that this will be taken care while syllabus of the subject will be designed.
- The committee of opined that department electives may start from Sem. IV.

- Dr Sachin Parikh inquired about the details of the subject Organizational Behaviour, HoD informed that it is a soft skills related course.
- Probable contents of the subject EPCSM were discussed. In laboratory all experiments related to pollution will be incorporated. Safety part should be given due weightage in syllabus.
- Committee also informed that M & S Lab to be included with 2 hour lecture, with minor modifications in proposed structure, it was included
- The committee discussed about inclusion of the subject Transport Phenomena as a compulsory subject, however looking to the proposed structure, the committee felt that it is well balanced and the concept of Transport Phenomena may be highlighted during Heat Transfer Operations, Fluid Flow Operations, Mass Transfer Operations I and Mass Transfer Operations II. In addition, it was decided that the subject should be kept in pool of the electives so interested students can opt it. The necessary modifications are made in pool of electives.
- The scheme of Minor project and Major Projects explained by the HoD.
- Discussion was held on proposed teaching scheme of Sem. VIII, members felt that better option of it may be explored. HoD informed that the teaching scheme of Sem VIII is common across all the departments of Institute of Technology and it is proposed such that student community may take advantage of minor specialization offered by the department as well as they can actively involve in prorammes offered by Foreign Universities with which ITNU has signed the MoU.
- Dr Sachin Parikh suggested that the subject Process optimization to be added in pool of electives. The pool of electives is modified accordingly.

The Meeting ended with vote of Thanks.

Dr. Jayesh Ruparelia
Professor and Head,
Chemical Engineering Department

AY 2016-17: No revision was proposed hence no feedback in this academic year

AY 2015-16 No revision was proposed hence no feedback in this academic year

Alumni Feedback form for syllabus

Dear Alumni,

We would like to get inputs from you regarding the syllabus. Please fill this form.

Thank you.

* Required

Email address *

Your email

Name *

Your answer

Roll No *

Your answer

Designation *

Your answer

Organization *

Your answer

Mobile Number *

Your answer

Email Address *

Trying to connect...

Questions Responses

Feedback from industry/R&D organization/Employer about syllabus

Feedback

Email address *

Valid email address

This form is collecting email addresses. Change settings

Name of the Organization *

Short answer text

Name of Contact Person: *

Short answer text

Designation *

Short answer text

E-mail Address *

Short answer text

Name of Subject *

Short answer text

(1) General Comments on Syllabus *

Long answer text

Questions Responses

Peer-Feedback form for syllabus

Dear Sir/Madam,
It has always been a pleasure to interact with you as a colleague in the same profession and discipline. We have always valued your opinion. We are seeking feedback from you regarding the syllabus of Chemical Engineering at Institute of Technology, Nirma University. We request you to please fill up the form.

With regards,

Email address *

Valid email address

This form is collecting email addresses. Change settings

Na *

Short answer text

Designat *

Short answer text

Institu *

Short answer text

Phone *

Short answer text

Em *

Short answer text

Subject for which you are *

Short answer text

Questions Responses

Parent's Feedback Form for Syllabus

Dear Parents,

Please go through the syllabus provided and submit your feedback in the following format.

Name of Student *

Short answer text

Roll No. *

Short answer text

Name of Parent *

Short answer text

Email *

Short answer text

Phone *

Short answer text

Name of Subject *

Short answer text

(1) General comments *