


CHAITANYA BHARATI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CHEMICAL ENGINEERING
Stake holder involvement in Curriculum Development
AY 2022-23
Suggestions Received from Stake Holders


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HEAD
Dept. of Chemical Engineering
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-75.

1) Students' Feedback

S.No	Name of the Student	Roll No	Year of passing	Suggestions
1	Kalyan Sai Suryadevara	160120802032	2024	<ul style="list-style-type: none"> • Introduction of Electro chemistry, Course on basics of business administration • A lab session involving Bio-Chemical engineering basics, Distribution of technical seminar and project part 2 in different semesters. • To simplify the documentation process that is required for the projects/internships at external institutions. • All core subjects to be completed by 3rd Year, • Research paper writing software, e.g.: Latex should be introduced to the curriculum or can be integrated into research methodology with lab sessions.
2	D Aravind	160120802308	2024	<ul style="list-style-type: none"> • Internships in each semester so that students are exposed to industrial experience. • Students should be offered research subjects and its practical applications • Encouraging more students to participate in seminars/presentations so as to increase their technical skills and vocabulary
3	Sai Sriya Kala	160120802013	2024	<ul style="list-style-type: none"> • Electives like Python, Machine learning should also be made core to help familiarize with the current technologies also useful in chemical engineering • Core subjects should be completed early for preparation for any competitive exams and internships/projects. • Certain important subjects like Optimization of chemical processes, Computational fluid dynamics can also be mandatory • General Aptitude or QUANT/ logical reasoning should also be included in the curriculum


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Chaitanya Bharathi Institute of Technology
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Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department External Inbox Updates

KALYAN SAI SURYADEVARA <ugs208110_chem.kalyansai@cbit.org.in>

Mon, Jan 22, 2024 at 12:28 PM

To: "hod_chem@cbit.ac.in" <hod_chem@cbit.ac.in>

Respected mam,

Following are my suggestions/inputs/ comments for R-22 Curriculum

1. Introduction of **Electro chemistry** in depth as professional elective would be a good idea as it is one of the important and trending topic.
2. As there were many companies that are recruiting students on the sales side, I would suggest to introduce a course containing basics of business administration either as a professional or open elective.
3. A lab session involving **Bio-Chemical engineering** basics e.g.: dealing with algae, various plant extracts etc would be helpful for the students who opt for projects containing bio-chemistry basics.
4. Distribution of technical seminar and project part 2 in different semesters would reduce the burden on students mam.
5. I also request you to kindly simplify the documentation process (if possible) or make it online documentation that is required for the projects at external institutions because the present documentation process is huge according to many students and hence hindering the students to opt for projects at external institutions in the fear of lengthy documentation process.
6. The main advantage we had in **R20 curriculum** was that all core subjects were completed by 3rd Year, which helped us during our **1st GATE attempt** in our 3rd Year. This gave us extra 1 attempt before our graduation mam. so, I request you to kindly look into this.
7. I would also like to suggest that a **course fully dedicated to learning research paper writing software**, e.g.: LaTeX should be introduced to the curriculum or can be integrated into research methodology with lab sessions.

Thanking you.

Yours Sincerely,
S. Kalyan Sai.

From: Chemical HEAD <hod_chem@cbit.ac.in>

Sent: 22 January 2024 11:34

To: KALYAN SAI SURYADEVARA <ugs208110_chem.kalyansai@cbit.org.in>; SAI SRIYA KALA <ugs208111_chem.saisriya@cbit.org.in>; NISHITHA REDDY NOMULA <ugs208113_chem.nishitha@cbit.org.in>; AMAN DUBEY <ugs208120_chem.aman@cbit.org.in>; DUNNA ARAVIND <ugs208168_chem.aravind@cbit.org.in>; nitinvarma2434@gmail.com <nitinvarma2434@gmail.com>

Subject: Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department External Inbox Updates

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Gandipet, Hyderabad-75.

**Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department
External Inbox Updates****DUNNA ARAVIND** <ugs208168_chem.aravind@cbit.org.in>

Mon, Jan 22, 2024 at 2:44 PM

To: "hod_chem@cbit.ac.in" <hod_chem@cbit.ac.in>, KALYAN SAI SURYADEVARA <ugs208110_chem.kalyansai@cbit.org.in>, SAI SRIYA KALA <ugs208111_chem.saisriya@cbit.org.in>, NISHITHA REDDY NOMULA <ugs208113_chem.nishitha@cbit.org.in>, AMAN DUBEY <ugs208120_chem.aman@cbit.org.in>, "nitinvarma2434@gmail.com" <nitinvarma2434@gmail.com>

1. As per R20 curriculum, the main advantage was internships in each semester so that students are exposed to **industrial experience**.
2. I would suggest that students should be offered research subjects and it's practical applications
3. Encouraging more students for participating in seminar so as to increase their skills and vocabulary.

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From: Chemical HEAD <hod_chem@cbit.ac.in>**Sent:** Monday, January 22, 2024 11:34:37 AM**To:** KALYAN SAI SURYADEVARA <ugs208110_chem.kalyansai@cbit.org.in>; SAI SRIYA KALA <ugs208111_chem.saisriya@cbit.org.in>; NISHITHA REDDY NOMULA <ugs208113_chem.nishitha@cbit.org.in>; AMAN DUBEY <ugs208120_chem.aman@cbit.org.in>; DUNNA ARAVIND <ugs208168_chem.aravind@cbit.org.in>; nitinvarma2434@gmail.com <nitinvarma2434@gmail.com>**Subject:** Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department External Inbox Updates

Dear Sir/Madam,

[Quoted text hidden]

HEAD
Dept. of Chemical Engineering
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-75.

Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department External Inbox Updates

SAI SRIYA KALA <ugs208111_chem.saisriya@cbit.org.in>
To: "hod_chem@cbit.ac.in" <hod_chem@cbit.ac.in>

Mon, Jan 22, 2024 at 2:58 PM

- 1) Electives like Python, Machine learning should also be made mandatory as it helps students familiarize with the current technologies which are also useful in the chemical engineering
- 2) Core subjects should be completed early so that students will have maximum time for their projects, internships or preparation for any competitive exams.
- 3) Certain important subjects like Optimization of chemical processes, Computational fluid dynamics can also be mandatory as they are some of the required skills in an industry.
- 4) General Aptitude or QUANTY logical reasoning should also be included in the curriculum as it is mandatory for all the competitive exams/ placements.

From: Chemical HEAD <hod_chem@cbit.ac.in>

Sent: 22 January 2024 11:34

To: KALYAN SAI SURYADEVARA <ugs208110_chem.kalyansai@cbit.org.in>; SAI SRIYA KALA <ugs208111_chem.saisriya@cbit.org.in>; NISHITHA REDDY NOMULA <ugs208113_chem.nishitha@cbit.org.in>; AMAN DUBEY <ugs208120_chem.aman@cbit.org.in>; DJANNA ARAVIND <ugs208168_chem.aravind@cbit.org.in>; nitinvarma2434@gmail.com <nitinvarma2434@gmail.com>

Subject: Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department External Inbox Updates

Dear Sir/Madam,


[Quoted text hidden]

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Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-75.


2) Teachers' feedback

S.No	Name of the faculty	Designation	Mobile No Mail ID	Suggestions & opinion
1	Dr NLN Reddy	Associate Professor	nlnreddy_chem@cbit.ac.in 8466997218	More up skilling courses for better employability
2	Dr R Prasanna Rani	Assistant Professor	prasannarani_chem@cbit.ac.in 9618365277	Petrochemical Technology to be split into two courses as petroleum Refining and Production of Petrochemicals
3	Sri.I. Balakrishna	Assistant Professor (Sr)	ibalakrishna_chem@cbit.ac.in 9440450622	The Professional electives can be grouped based on the skills that required by industry/ R&D and student can choose the professional electives in that group in each semester to acquire the related skills.


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3) Employers' feedback

S.No	Name of the Industry Expert	Company and Designation	Email ID and Mobile No.	Suggestions
1	V Srinivas Rao Manager HR	Deccan Chemicals Ltd	srinivasa.vangara@deccanchemicals.com 9966123742	<ul style="list-style-type: none">• Knowledge on Pumps to be imparted• more focus on basic concepts
2	Prasanth	AVEVA HR Manager	9900598598	<ul style="list-style-type: none">• Concepts on core process and plant equipment design• Energy Optimization should be emphasized


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Chaitanya Bharathi Institute of Technology(A)
Career Development Center
Recruiters Feedback Form

Date: 07/11/2023

Academic Year:	2023-2024
Name of the Company:	Deccan Chemicals Ltd.

Eligible branches:	Chemical Engineering				
	Excellent	Very good	Good	Satisfactory	Not satisfactory
Related to Students:	Domain Knowledge				✓
	Programming skills				NA
	Communication skills			✓	
	Aptitude			✓	
Related to college	Attitude			✓	
	Facilities		✓		
Any other Remarks	Hospitality		✓		
	① students should wear professional clothes				
② student Needs to Focus on Fluid Mechanics (pumps)					

V. SRINIVASA RAO
 Name & Designation
 Manager - HR

9966123742
 Contact number

Srinivasa.vanagara@deccachemicals.com
 E-Mail

V. Srinivasa Rao
 Signature

MV

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Dept. of Chemical Engineering
Chaitanya Bharathi Institute of Technology
Gandipet, Hyderabad-75.

E4

Dear Stake-holder,

The purpose of the questionnaire is to solicit, your opinion on the vision, mission, curriculum, POs, PEOs and PSOs statements, the inputs of which will be held completely confidential. We request you to rate the statements for our programme, by choosing your answer appropriately on a scale of 1 to 3. Thank you in advance for your cooperation and participation.

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

DETAILS:

Name: PRASHANTH	email Id:
Designation: HR Manager	Contact No.: 9900598598
Whether Student/Alumni/Industry/Personnel/parent/employer/Academician/Professional body member:	Address: AVEVA
If Student/Alumni, Roll no. and year of admission:	If Parent, Your ward name and year of admission:
Signature of the stakeholder:	<i>[Signature]</i>

I. VISION and MISSION proposed for our department inline with that of our institute displayed on our institute website

Vision : "To be the Centre of excellence in technical education and research".

Mission : "To address the emerging needs through quality technical education and advanced research".

Statements	(1) Low	(2) Medium	(3) High
VISION OF THE DEPARTMENT: To become the most sought centre of excellence engaged in training and shaping students as professionals for higher education and process industries both in India and abroad and allow the students to do R&D projects and publish same in the reputed journals.			
MISSION: [Three statements] M1: Imparting contemporary technical education and training manpower.			✓
M2: To create skilled human resource talent pool.		✓	
M3: To serve and manage the process industries globally with a sense of responsibility towards society and environment.		✓	

II. Program Educational Objectives (PEO's) defined for our department UG Program are:

PEO No.	Statement	(1) Low	(2) Medium	(3) High
PEO - 1	Graduates will excel in advanced studies and research in chemical engineering and allied disciplines, will establish successful enterprises by applying their foundations of chemical engineering principles and provide innovative solutions to industry challenges.			✓
PEO - 2	Graduates will possess the ability to lead, collaborate effectively, and conduct themselves ethically in professional environments. They will recognize the impact of their work on society and environment on a global scale, and will pledge to engage in actions that benefit society.		✓	
PEO - 3	Graduates will utilize their technical expertise and analytical abilities to enhance the design, evaluation, and optimization of products and processes. They will respond to the evolving demands of the process industries by dedicating themselves to excellence in engineering practices.		✓	
PEO - 4	Graduates will engage in continuous technological advancements, enhancing their abilities through attending workshops and conferences, certification courses, and self-directed study. This will assist them in remaining pertinent and adaptable in an ever-evolving world.		✓	

III. PROGRAM SPECIFIC OUTCOMES (PSOs) defined for our department UG Program in addition to the required Program Outcomes are:

PSO No.	Statement	(1) Low	(2) Medium	(3) High
PSO - 1	Undertake research activities in the area of heat and mass transfer, separation processes, Reaction engineering, related to Green Chemical Engineering.		✓	
PSO - 2	Undertake real life projects in process industries and allied fields.		✓	

Comments/Suggestions/changes, if any required for the improvement in the curriculum/programme (You may suggest any latest topics/industry oriented courses etc)

1) Concepts on Core processes & plant Equip. design needed.

2) Energy optimization to be emphasized


[Signature]

[Signature]

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4) Alumni feedback

S.No	Name of the Alumni	Batch	Present Occupation	Email ID and Mobile No.	Suggestions
1	Mr. Himanshu Vemula	2012-2016	Managing Director Biosephia Organic Solutions	himanshuvemula@biosephia.com 8019759255	<ul style="list-style-type: none"> Instrumentation and Material Characterization in 3rd semester and Fluid Mechanics in the 4th semester. Same goes with labs. Process Modeling and Simulation can be shifted to VII Semester. Design and Analysis of Experiments and Process Intensification are two core areas if the student chooses to pursue his career in the Pharma field. It would be great if the electives are divided into two different semesters rather than under one elective option. Biochemical Engineering could be introduced as a major subject as many prominent organizations are working in the field providing lots of opportunities. Elective of Energy Engineering to be offered after Heat Transfer. Fuel cell can be swapped with PI or DOAE
2	Mrs P. Sreevani	2004-2008	Senior business analyst, Aveva	vanireddy2287@gmail.com 9966002449	<ul style="list-style-type: none"> No industrial exposure except plant design to an extent that gives some idea. Elective on Oil and gas industry along with refineries would help students who would like to pursue their careers in core engg. Understanding of the basics of sustainability. Hands on experience on simulation softwares.
3	Anil	2000-2004	Software Architect, Microsoft USA	anil.sidl@gmail.com 8187963392 (local number)	<p>Courses with Content related to can be introduced</p> <ul style="list-style-type: none"> Data modelling and Data Analytics with Python in Chemical Engineering, Machine learning and cloud computing can be introduced. Application developments Cross skilling Customer facing skills End to end data flow


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 Gandipet, Hyderabad-75.

Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department

Thu, Jan 18, 2024 at 3:56 PM

Himanshu Vemula <himanshuvemula@biosephia.com>

To: Chemical HEAD <hod_chem@cbit.ac.in>

Cc: anandp@csirict.in, Ramya Sanam <s_ramya@neeri.res.in>, badarlasandeep@gmail.com, PK V <pavan21@gmail.com>, Prodduturu Sreenivaslu <sreenivaslu@drreddys.com>, chaitanya@srictpl.in, sridurga@ouct.ac.in, Sreevani Pyreddy <vanireddy2287@gmail.com>, "Anoop Kishore V [MAHE-MIT]" <anoop.vatti@manipal.edu>, HARI BABU P <haribabu.pengonda@rgukt.ac.in>, suman peddi <sumanpeddi999@gmail.com>, guptanco1@gmail.com, Ananth padmanabha rao <padmanabha412@gmail.com>, Idmaheswarareddy@gmail.com, vkanakachalam@rediffmail.com, dp@srictpl.in, ugs21031_chem.eswaraditya@cbit.org.in, ugs208107_chem.amayramdas@cbit.org.in, ugs22001_chem.anna@cbit.org.in, Sindhuja talla <sindhujatalla30@gmail.com>, anil potluri <anil@greenwavesrecyclers.in>, Jagadish | Punya Herbals <jagadish@punya.co.in>, A Ramesh Babu <ramesh.babu@hyderabad.bits-pilani.ac.in>, "Dr. Narasimha Mangadoddy" <narasimha@che.iith.ac.in>, shirishsonawane09@gmail.com, "Dr. Sanjay Bhardwaj" <sanjayarci@gmail.com>, srinath@nitw.ac.in, Venkata Basava Rao <profbasavarao_1964@yahoo.com>, cipetpcthyd@gmail.com, babji70@yahoo.com, sreevani.pyreddy@aveva.com

Good evening Ma'am,

The syllabus covers all the essential topics but a few suggestions from my end would be as follows.

1. Considering the path of flow into **Materials and Material Sciences** for a student I would suggest to introduce Instrumentation and Material Characterization in 3rd semester and Fluid Mechanics in the 4th semester where Fundamentals of all Instrumentation and materials can be covered before moving to the core essentials topics. Same goes with labs.
2. As Professor rightly suggested **Process Modelling can be shifted to VII Semester**.
3. **Design and Analysis of Experiments** and **Process Intensification** are two core areas if the student chooses to pursue his career in the Pharma field. It would be great if the electives are divided into two different semesters rather than under one elective option.
4. Considering the placement options available for us in Hyderabad which would majorly include **Pharma and Bio-Pharma** as Maheshwara Reddy sir **Biochemical Engineering** could be introduced as a **major subject** as many prominent organisations are working in the field providing lots of opportunities.
5. Understanding the program from a student who would like to build his **career around Energy** would request you to push the Elective of **Energy Engineering** one semester afterwards as it would be ideal to understand the same after understanding the fundamentals with Heat Transfer. Fuel cell can be swapped with **PI or DoAE** as per the suggestion in point 3.

Overall the course covers all the paths a Chemical engineer can choose and I am happy to be contributing for the same.

Thanks and Regards
Himanshu Vemula
 Managing Director
 Biosephia Organic Solutions
 [Quoted text hidden]

MV

HEAD
 Dept. of Chemical Engineering
 Chaitanya Bharathi Institute of Technology
 Gandipet, Hyderabad-75.

Reg: Request for Feedback on R22 Curriculum of Chemical Engineering Department


Sreevani Pyreddy <vanireddy2287@gmail.com>
To: Chemical HEAD <hod_chem@cbit.ac.in>

Fri, Jan 19, 2024 at 12:20 AM

Hi Mam,
Thanks for making me part of this.
After reviewing the syllabus, I felt that there is **no industrial exposure offered in any of the courses.**
I only see plant design to an extent that gives some idea.
May be an elective for getting more **idea of Oil and gas industry along with refineries** would help students who would like to pursue their careers in core engg.
Of course I also suggest stress on the **understanding of the basics of sustainability.**
Also some hands on the **simulation softwares.**

Regards,
Sreevani
9966002449

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Gandipet, Hyderabad-75.



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

An Autonomous Institute Affiliated to Osmania University
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbrit.ac.in

Approved by:

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

45 years

AR

Name: Anil Present Designation: Architect
 Name of the Programme studied: Year of Pass out: 2004
 Contact No.: 818 776 3392 Email-ID: anil-sid1@gmail.com
 Address of the Company: CA
 Feedback on UG/PG Curriculum:

Feedback on Curriculum by Alumni

This questionnaire is intended to collect information relating to curriculum, teaching, learning and evaluation. The information provided by you will be pivotal for quality improvement of the programme.

Please answer the following questions on the scale of 1 to 5 where 1 indicates little satisfaction and 5 indicates higher satisfaction. Please mark a tick '✓' in the appropriate cell.

Sl.No.	Questions	1	2	3	4	5
1.	The curriculum and syllabus provide sufficient knowledge in the area of study				✓	
2.	Holistic development is ensured thorough this curriculum				✓	
3.	The curriculum focusses on developing technical and communication skills of the students					✓
4.	The curriculum develops the employability potential of the students.				✓	
5.	The curriculum instils the professional ethics among the students.				✓	
6.	Industrial exposure in the curriculum					✓
7.	The curriculum and non-curricular initiatives taken up help the students to attain the required competency level				✓	
8.	Does the Curriculum satisfy the current industry requirement?				✓	
9.	How do you rate the relevance of the curriculum to the organisation				✓	
10.	Any Suggestions: <ul style="list-style-type: none"> - Applications development - Cross skimming - Enhancements - Customer facing skills - End to End dataflow 					

Anil
Alumni Signature

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