



# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet ( Village), Gandipet, Hyderabad, Telangana-500075. [www.cbit.ac.in](http://www.cbit.ac.in)



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COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

# 43

years

Name of the Department: Chemical Engineering

Academic Year: 2020-21 (Batch 2017-21 Passed Out)

UG Program

Program Outcomes	Target Fixed	Target Achieved	Observation (Attained/Not Attained)	Actions Taken		
				A1	A2	A3
PO1	1.73	2.30	Attained	It is aimed that the Course Projects, final year Project Works and Camps relate the knowledge of applied and basic sciences to engineering applications in order to solve different types of complex engineering problems.	To prepare video lectures available through Learning Management System (LMS).	Increased use of ICT tools for teaching-learning and assessment.
PO2	1.73	2.30	Attained	Students will be motivated to participate in Idea/research project exhibitions/Hackathons for developing an analytical mind which can work towards problem solving.	Increased number of lab courses which lay down a foundation to select and carryout project related to complex engineering problems.	Provision for industry internship as part of the curriculum for enhanced and better exposure to latest technological trends.

Program Outcomes	Target Fixed	Target Achieved	Observation (Attained/Not Attained)	Actions Taken		
				A1	A2	A3
PO3	1.74	2.31	Attained	Provision for industry internship as part of the curriculum for enhanced and better exposure to latest technological trends.	Students are encouraged and motivated to take up mini project works that include and pertain to public health and safety, and the cultural, societal, and environmental considerations.	To give assignments which address higher blooms taxonomy levels
PO4	1.65	2.20	Attained	To enter into MoUs with industries and R & D to establish industry-based labs and activities which facilitate experiential learning to students.	New courses are included and syllabi is updated to inculcate the analysis and research skills.	To introduce research based experiments in the lab/practicals such that the student can develop an ability to solve open-ended problems.
PO5	1.37	1.82	Attained	Labs are developed to demonstrate the use of simulation tools like MATLAB, ASPEN etc. to fulfill the requirement of engineering applications in industrial era.	To encourage the usage of programme specific simulation tools in mini & major project.	To include open ended & structured enquiry type of experiments.
PO6	1.68	2.40	Attained	To introduce few more professional electives which addresses the regulations, codes & standards relevant to Chemical Engg.	Encourage students to take part in Swach Bharat drives, Blood Donation Camps, Village visits etc.	To introduce courses related to Community Engagement.


Program Outcomes	Target Fixed	Target Achieved	Observation (Attained/Not Attained)	Actions Taken		
				A1	A2	A3
PO7	1.45	1.94	Attained	Courses, that deal with environmental and sustainability issues, have been introduced with the aim of understanding the impact of professional engineering solutions in societal and environmental contexts.	To encourage students to take up projects through which relationship between technical, socio-economic & environmental dimensions of sustainability will be understood.	To encourage students to participate in social activity related to environment (eg: Tree plantation under Haritha Haram)
PO8	1.50	2.00	Attained	To introduce a new course on ethics titled “UHV-2”, “Understanding of Harmony” as suggested by UGC.	It is proposed to give weightage in the rubrics that is prepared to evaluate ethical behavior in the lab & project courses.	Students are motivated and made aware through professional courses about the demands of engineering profession, duties towards society & fellow human beings and importance of honesty and ethics.
PO9	1.5	2.00	Attained	The laboratory work of the students is conducted by framing student groups so that students learn to work in a team environment.	There are a number of clubs in the institute, where the students learn to work both as individuals and in a team.	To introduce activity based courses like “Community Engagement”, Engineering Exploration from the first year, so that the spirit of individual and team work can be inculcated in an effective way.

Program Outcomes	Target Fixed	Target Achieved	Observation (Attained/Not Attained)	Actions Taken		
				A1	A2	A3
PO10	1.61	2.15	Attained	Students are encouraged to undergo Soft skills training programmes that which enhances various aspects of communication/technical discussions.	To revise the rubrics used to evaluate the CIE of projects, seminars so that more focus is given to student's ability in oral communication (presentations skills), written communication (report writing) and summarization (conclusion).	To introduce more topics related to these skills in the Soft skills course.
PO11	1.58	1.95	Attained	To encourage the students to present their IDEAS at MSME incubation centre of CBIT.	The awareness is created among the student regarding the management principles and managing projects by introducing the relevant courses which are revised and upgraded regularly to cater to latest techniques and trends in this area.	To introduce freshman course so that student will be able to prepare economic and financial benefits of process design & development.
PO12	1.58	2.10	Attained	To introduce internship during every academic year (summer & winter breaks)	To facilitate honors & minor engineering degrees for the students who can acquire credits through MOOCs courses.	To encourage students to carry out projects in emerging areas and their applications in Chemical Engg.

Program Outcomes	Target Fixed	Target Achieved	Observation (Attained/Not Attained)	Actions Taken		
				A1	A2	A3
PSO1	1.53	2.04	Attained	To revise the syllabus in the subsequent curriculum revision, which will lay down a foundation to select and carryout projects related to Green Engg.	Students are encouraged to wade through fundamental research papers on latest Chemical Engg trends for innovation.	It is proposed to offer assignments which addresses higher blooms taxonomy.
PSO2	1.56	2.08	Attained	Students are motivated to take up the real life problems during their project work so that they can design, analyze and find solution which gives exposure to latest technologies.	To motivate students to work with multidisciplinary aspects during the project work which will ease experiential learning to students.	To enter into MoUs with industries and R & D to establish industry-based labs and activities which facilitates the students to undertake real life projects in process industries and allied fields.

### Evidences:

1. Drive Link for CO PO mapping Sheets Semester wise: [View File](#)
2. Complete PO attainment table for 2017 batch (AY: 2020-21) hard copy endorsed by head of the department: [View File](#)

  
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