



NEWSLETTER

From 1st July 2020 to 30th June 2021

DEPARTMENT OF CHEMICAL ENGINEERING JNTUH COLLEGE OF ENGINEERING HYDERABAD

(Autonomous)

Kukatpally, Hyderabad – 500085

VISION

To be recognized as one of the top 10 institutes in the country offering technical education, sustaining and improving its repute of UG programmes, expanding need based PG and research programmes with global outlook, synergising teaching and research for societal relevance

MISSION

1. To identify technological advancements and build the right level of skills at the right time contributing to the industrial and national growth.
2. To identify and keep abreast with the state of the art technology maintaining its legacy of striving for excellence in higher education.
3. To promote world class research of local relevance to society.
4. With a research community of professors, research fellows and research centres, expand the scale and multidisciplinary character of its research activities.
5. With a global outlook strive for collaborations to network with International Universities and National Institutes of Research and Higher Learning.



JNTUH COLLEGE OF ENGINEERING HYDERABAD

DEPARTMENT OF CHEMICAL ENGINEERING



VISION:

To be a premier chemical engineering department meeting the needs of academia, industry and society through quality education and innovative research.

MISSION:

1. Provide a comprehensive learning ambience in sciences, chemical and allied engineering.
2. Impart principles of sustainability and stimulate the evolution of environment friendly techniques and processes for the benefit of society.
3. Promote leadership qualities and team work through collaborations.



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	
PEO-1	Achieve innovation in research, education and administration in multi-discipline environment.
PEO-2	Obtain leadership positions in prestigious organizations.
PEO-3	Exhibit high ethical standards, team work with continuous learning to cater the ever changing professional needs.
PEO-4	Pursue personal development through acquiring knowledge, skills and attitude.
PROGRAM OUTCOMES (POs)	
1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2 1.	Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural science, and engineering sciences.
3	Design/Development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5 2.	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6 3.	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7	Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8 4.	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9 5.	Individual and in team: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.
11	Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PROGRAM SPECIFIC OUTCOMES (PSOs)	
PSO-1	Interdisciplinary Approach: The Students will be able to apply chemical engineering principles to interdisciplinary areas like nanotechnology, environmental & energy engineering, Process safety
PSO-2	Modeling & Simulation: The Students will be able to work on modeling, simulation & optimization of chemical processes using MATLAB & PRO-II software

List of Programs Offered by the College/Academic Unit with Intake:

Sl. No.	Name of the UG/PG Programme	Sanctioned In take
1	B.Tech. (UG)- Chemical Engineering	60

List of Faculty members: (Name and Designation)

S.No.	Name of the Faculty	Designation
1	Dr. S. Devaki Rani	Professor & Head
2	Mr. Dipankar Das	Assistant Professor (C)
3	Mrs. N. Vandana	Assistant Professor (C)
4	Dr. Ch. Ramesh	Assistant Professor (C)
5	Mrs. P. Sowmya	Assistant Professor (C)

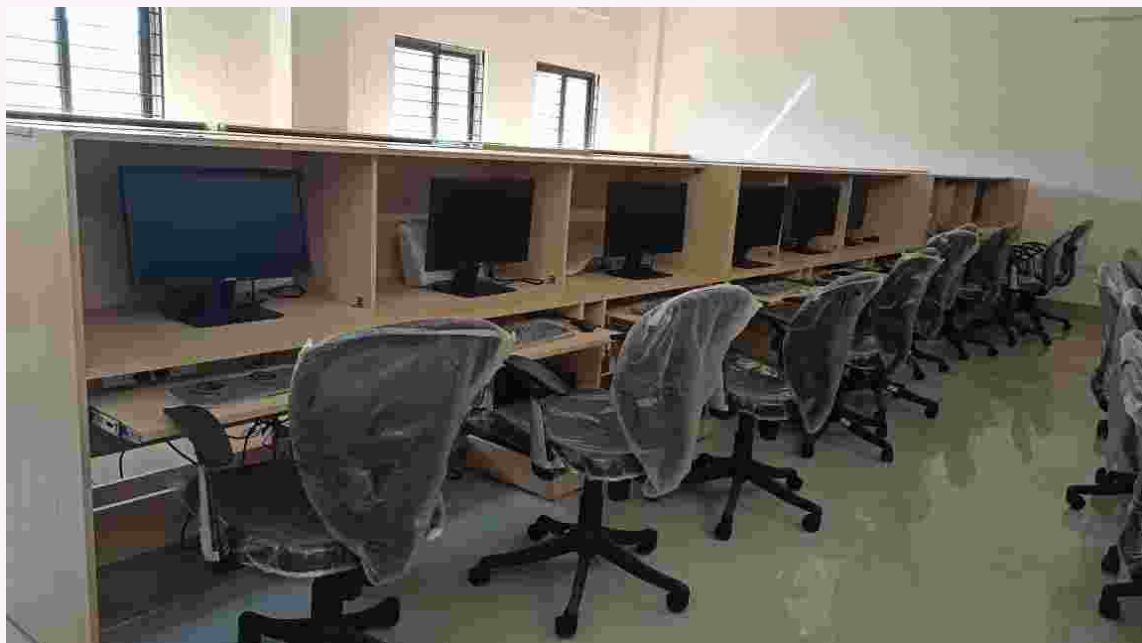
Department Laboratory:

**Mechanical Operations Lab: - Lab Conducted at Metallurgical Engineering Department, JNTUH
Instrumentation & Process Control Lab**

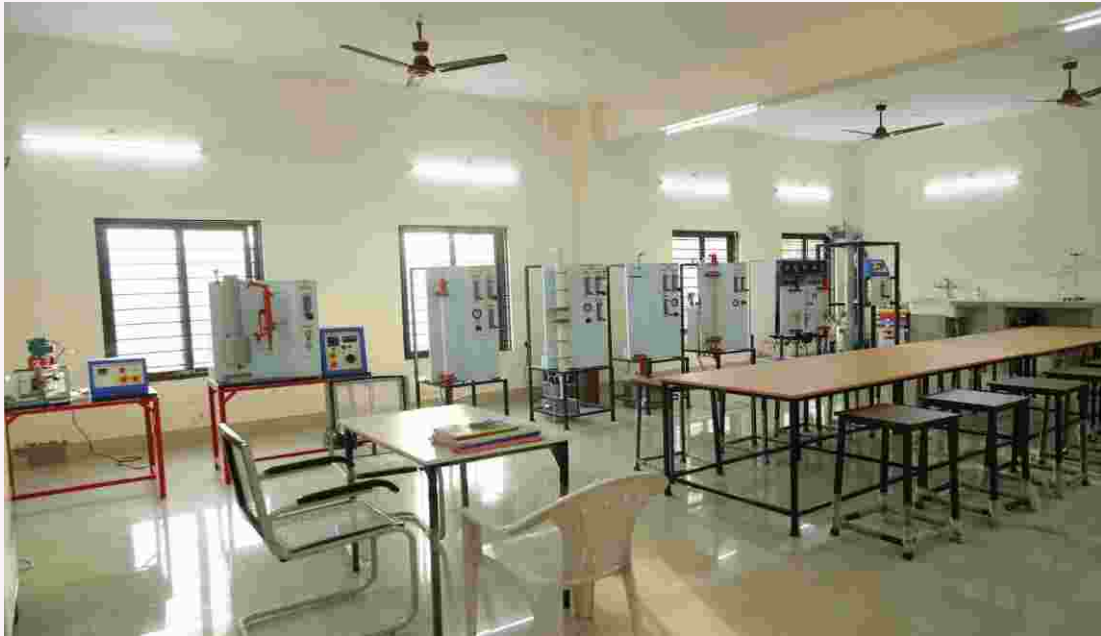


Instrumentation & Process Control Lab

Process Simulation Lab:



Mass Transfer Operations Lab:



Chemical Reaction Engineering Lab:



Chemical Reaction Engineering Lab

Fluid Mechanics Lab:



Fluid Mechanics Lab

New Equipment/Software Installed:

- MAT LAB software installed in the systems (24No.s) in department computer lab during February/March 2021.
- Installation of internet ports during February/March 2021.
- **Eight new laboratory equipment were installed in December 30th 2020**

Sl. No.	Name of the Dept./Centre	Place in which Equipment was Installed	Details of the Equipment	Quantity	Cost of the Equipment
1	Chemical Engineering	Fluid Mechanics Lab	ROTAMETER	01	35,070/-
2		Mechanical Operations Lab	Froth Floatation Cell	01	59,745/-
3		Fluid Mechanics Lab	Drag Co-Efficient Apparatus	01	44,-/100
4		Instrumentation & Processes Control lab	Dynamics of Thermocouple & Thermometer	01	35,175/-
5		Instrumentation & Processes Control lab	Time Constant Measurement In Manometer	01	32,130/-
6		Chemical Reaction Engineering Lab	Isothermal Batch Reactor	01	38,115/-
7		Chemical Reaction Engineering Lab	Mass Transfer With & Without Chemical Reaction	01	44,730/-
8		For all Laboratory Purpose	Ro System	01	1.36,500/-
Total Amount					4,25,565/-

Faculty Achievements:**Details of Webinars/Conferences/Seminars/Workshops/ Refresher Courses/Orientation****Courses/ FDPs Attended by the Faculty:**

- **Mr. Dipankar Das,Assistant Professor (C)** attended a One Week AICTE Sponsored Short Term Training Program on “Design of Experiments in Engineering”organized by Dept. of Mechanical Engineering, B.V.Raju Institute. of Technology., Hyd, January 04th, 2021 to January 09th, 2021.
- **Mr. Dipankar Das,Assistant Professor (C)** attended a Two-Days national conference on “Carbon capture by chemical absorption using promoted solvent”organized by Department of Chemistryin Association with Dept. of Chemical Engineering, JNTUH CEH, January 28th 2021 to January 29th 2021.
- **Mr. Dipankar Das,Assistant Professor (C)** attended a Three-Days International Workshop on “Environment & Energy”organized by Centre of Environment, IST, JNTUH, March 1st 2021 to March 3rd 2021.
- **Mr. Dipankar Das,Assistant Professor (C)** attended a One- Day National Webinar on “Interactive sessions with successful Startup Founders”organized by Institutions Innovation Council and Amity Institute of Biotechnology, Mumbai, March 19th 2021.
- **Mr. Dipankar Das,Assistant Professor (C)** attended a One- Day NationalWebinar on “Corrosion Science and Technology 2021”organized by The Indian Institute of Metals, Kalpakkam Chapter, Tamil Nadu, May 12th 2021.

- **Mr. Dipankar Das, Assistant Professor (C)** attended a Three-Days Online Faculty Development Program on “Advances in Chemical Engineering” organized by Chemical Engineering Department, Jawaharlal Nehru Engg. College, MGM University, Aurangabad, Maharashtra, May 24th 2021 to May 26th 2021.
- **Mr. Dipankar Das, Assistant Professor (C)** attended a Five-Days Online Faculty Development Program on “Safety & Industrial Hygiene” organized by Dept. of Chemical Engineering of G.M.R Institute of Technology, Rajam, Andhra Pradesh, June 22nd 2021 to June 26th 2021.
- **Mrs. P. Sowmya, Assistant Professor (C)** attended 30-days online program on “Faculty induction program” organized by UGC, HRDC, JNTUH, 28th June, 2021 to 04th August, 2021.
- **Mrs. P. Sowmya, Assistant Professor (C)** attended 05-days online faculty development program on “Inculcating Universal Human Values in Technical Education” organized by AICTE, Nelson Mandela Marg, Vasant Kunj, New Delhi, 04th to 08th October, 2021.

Journal Papers Published by the Faculty:

- Mrs. P. Sowmya, Assistant Professor (C) has published as an article titled “Escalation of pure and NI²⁺ dazed neurotransmitter Na₂So₄ crystals and its categorization”, Int. J. Mazedan chemical research journal, e-Issn: 2582-9505, volume no: 2, Issue no: -11, in 3rd Nov.2021.
- Mrs. P. Sowmya, Assistant Professor (C) has published as an article titled “Synthesis, optical and Bacterial Activity of ZnO nanoparticles”, Int. J. Recent Advances in Scientific Research and Technology. ISBN 978-981-18-1263-7, Page No: 214-218, in 2021.
- Dr. T. Bala Narsaiah (on deputation) Professor of Chemical Engg., is promoted as HOD of Chemical Engineering Department, JNTUH CEH, from 12.07.2021.

Students' Achievements:

- **Prizes/Awards for outstanding performance in Academic/Any Other Activities:**

Student GATE Score Details:

Sl. No.	Name of the Dept./Centre	Roll No.	Name of the Student	Exam Qualified	Rank Secured	GATE Score	Registration number
1	Chemical Engg.	17011A0807	A. Arun Kumar	GATE	1014	519	CH21S51404442
2		17011A0810	Ch.Kalyansundar Krishna	GATE	2357	381	CH21S56065190
3		17011A0811	V.Kamya	GATE	1014	519	CH21S51409050
4		17011A0827	R. Sahiti Krishna	GATE	1790	430	CH21S51407101
5		17011A0829	A .Sai Anirudh	GATE	565	593	CH21S51409054
6		17011A0831	I.SaiMohith	GATE	2615	361	CH21S51409058
7		17011A0836	B.Shiva Raj	GATE	2558	365	CH21S51404162
8		17011A0840	S.Srivalli	GATE	2495	369	CH21S51407289
9		17011A0846	B.VenkataRohith Raj	GATE	2295	385	CH21S51407121
10		17011A0850	A.viswas Reddy	GATE	1344	479	CH21S51405634
11		18011A0802	A. Sravya (3 rd year)	GATE	2671	357	CH21S51405550

Student Higher Studies

- **Arun Kumar**& IV B.Tech. (Roll No.17011A0807) has received the admission to M. Tech. in **IIT, Kharagpur, West Bengal**, in Chemical Engineering.
- **I. Sai Mohith**& IV B.Tech. (Roll No.17011A0831) has received the admission to M. Tech. in **IIT, Hyderabad**, in Chemical Engineering.
- **B. Rohith Raj**& IV B.Tech. (Roll No.17011A0846) has received the admission to M. Tech. in **IIT, Hyderabad**, in Chemical Engineering.
- **A. Vishwas Reddy**& IV B.Tech. (Roll No.17011A0850) has received the admission to M. Tech. in **IIT, Hyderabad**, in Chemical Engineering.
- **R. Sahiti Krishna**& IV B.Tech. (Roll No.17011A0827) has received 3rd prize in **Elocution**, Membership No- **SM-67628**, conducted by Indian Institute of Chemical Engineers -Hyderabad Regional Centre, on 05.06.2021
- **V. Kamy**a& IV B.Tech. (Roll No.17011A0811) has received 1st prize in **Technical Quiz**, Membership No- **SM-69733**, conducted by Indian Institute of Chemical Engineers -Hyderabad Regional Centre, on 05.06.2021
- **R. Sahiti Krishna**& IV B.Tech. (Roll No.17011A0827) has received 1st prize in **Technical Quiz**, Membership No- **SM-67628**, conducted by Indian Institute of Chemical Engineers -Hyderabad Regional Centre, on 05.06.2021
- **A. Sai Anirudh**& IV B.Tech. (Roll No.17011A0829) has received 1st prize in **Technical Quiz**, Membership No- **SM-69735**, conducted by Indian Institute of Chemical Engineers -Hyderabad Regional Centre, on 05.06.2021.

JNTUH CEH Placements:

• Placement Details 2020- 21

S.No.	Roll Number	Name of the Student	Name of the Organization	Package
1	17011A0811	V. Kamy	Aragen Life Sciences Private Limited, Hyderabad	3.4 Lakh
2	17011A0820	G.Naveen Kumar	Aurobindo Pharma Limited	3.6 Lakh
3	17011A0822	TilaruPavan Kumar	ITC	6.81 LPA
4	17011A0827	RavuriSahiti Krishna	ITC	6.81 LPA
5	17011A0836	B.Shiva Raj	Aurobindo Pharma Limited	3.6 Lakh
6	17011A0840	SriperambudurSrivalli	ITC	6.81 LPA
7	17011A0847	N.Venkat Sai	Aurobindo Pharma Limited	3.6 Lakh
8	17011A0848	S.VenkataYuva Raju	Aragen Life Sciences Private Limited, Hyderabad	3.4 Lakh
9	17011A0849	N. Vinod Kumar	ITC	6.81 LPA
10	16011A0832	L. SanniBabu	DrReddys Laboratories Ltd	3.5 Lakh
11	16011A0838	B.Shivakumar Reddy	DrReddys Laboratories Ltd	3.5 Lakh
12	17015A0803	A.Ramesh	DrReddys Laboratories Ltd	3.5 Lakh
13	17011A0804	KanugantiAkshaya	TCS	3.36 LPA
14	17011A0809	MekalaKalyan Kumar	Aragen Life Sciences	3.4 LPA
15	17011A0815	SripadaMadhumitha	Aragen Life Sciences	3.4LPA
16	17011A0817	B. Mahesh Krishna	Akash	6.7 LPA
17	17011A0818	BonulaMihiraRamana	Accenture	4.5 LPA
18	17011A0823	SamudralaPavithra	Infosys	3.36 LPA
19	17011A0839	Soma Sriharshini	Aragen Life Sciences	3.4 LPA
20	17011A0841	DudaSupriya	Infosys	3.36 LPA

• **JNTUH CEH Library: Information about the Books/Journals/Online sources/ Unique Features / Facilities.**

Library Books:

S.No	Subject Name	Title	Author Name	Publisher	Number of Copies
1	Introduction To Chemical Engg	Chemical Engg An Introduction	Morton. M.Denn	Cambridge University Press	01
2	Chemical Process Calculations	Chemical Process Principles	O.A. Hougen, K.M. Watson, R. A.Ragatz	Asia Publishing House	01
3	Chemical Engg Fluid Mechanics	Unit Operations Of Chemical Engg	W. L. Mccabe , J.C.Smith	Mc. Graw-Hill (3rd Edition)	01
4	Thermodynamics	Steam Tables With Miller Diagram(In Si Units)	R.S.Khurmi	S.Chand& Company Ltd	01
5	Heat And Mass Transfer	Analysis Of Mass Contactors & Heat Exchangers	T.W.F Russell, A.S. Robinson, N.J.Wagner	Cambridge University Press	01
		Diffusion- Mass Transfer In Fluid Systems	E.L.Cussler	Cambridge University Press (3rd Edition)	01
		Process Heat Transfer	Donald.Q.Kern	Mc. Graw-Hill	01
6	Chemical Reaction Engg	Chemical Reaction Engg	Octave Levenspiel	Wiley Eastern University (2nd Edition)	01
7	Instrumentation & Process Control	Automatic Process Control	Donald. P.Eckman	Wiley Eastern Limited	01
8	Process Modeling & Simulation	Mathematical Modelling & Simulation In Chemical Engg	M.Chidambaram	Cambridge University Press	01
		Computational Simulation Tools In Engg	V.Ramesh Kumar, T.BalaNarsaiah,K.Ravi Chand	Bs Publications	01
9	Transport Phenomena	A Modern Course In Transport Phenomena	D.C.Venerus, H.C.Ottinger	Cambridge University Press	01
10	Chemical Engg Plant Design & Economics	Plant Design & Economics For Chemical Engg	M.S.Peters, K. D. Timmerhaus	Mc. Graw-Hill (3rd Edition)	01
11	Petroleum Refining & Petro-Chemicals	Petroleum Processing	V.P.Sukhanov	Mir Publishers	01
		Instrumentation Manual Petroleum Processing & Petro-Chemical Industries	N.Komissarova	Mir Publishers	01
12	Material Science	Strength Of Materials	N.K.Mehta	Mir Publishers	01
		Material Science & Metallurgy	Dr. O.P.Khanna	Dhanpat Rai & Sons	01
13	Energy Engg	Fuels & Combustion	S.P.Sharma Chander Mohan	Tata Mc. Graw-Hill	01
14	Optimization Methods	Optimization In Chemical Engg	Suman Dutta	Cambridge University Press	01
