



Sri Venkateswara University, Tirupati

DEPARTMENT OF CHEMICAL ENGINEERING



- **VISION**
- To be a world class department of chemical engineering in effective teaching and knowledge creation which is seamlessly integrated with bordering sciences and is committed to ignite and propel young minds with passion for originality, innovation and excellence.
- **MISSION**
- To train technically competent and socially aware chemical engineers through innovative and rigorous educational programs to meet technological needs of the society
- To encourage self-learning, problem solving, inquisitiveness and team work among students.
- To enable students to develop capabilities needed to perform in multidisciplinary environment.
- To promote industry- institute interaction to nurture collaborative and applied research programs
- To help students develop a well-rounded personality with qualities of innovative thinking, leadership, entrepreneurship and ethical mind.
- To create amiable ambience of academics for intellectual pursuit and innovative research

ABOUT THE DEPARTMENT :

Department is ranked 17 in top 20 National Universities in Chemical Engineering based on publication output as per "measures of performance of Universities in India: An Analysis of the Publication output in Science and Technology CSIR – National Institute of Science and Technology and Development Studies, New Delhi, 2011. Department of Chemical Engineering, established in 1977, offers an undergraduate and a postgraduate course in Chemical Engineering, besides providing research guidance leading to a doctoral degree. The curriculum is regularly revised to incorporate newer subjects and the present curriculum is well balanced to meet the requirements of the industry and higher learning institutions. Three elective courses on advance topics are offered at the undergraduate level. One general and three electives in one of the following streams bioprocess engineering/high polymer engineering/energy Engineering, are taught at postgraduate level. The laboratories of this department are well equipped with facilities to conduct about 100 experiments, at undergraduate and postgraduate level. Project work/dissertation on process analysis/design/core soft/experimental themes is to be submitted by undergraduates as a part of the curriculum. Postgraduate dissertations based on experimental or modeling and simulation study over a period of 1 year are prescribed. Students have been performing consistently well in GATE and recruitment tests conducted by various organizations. On an average 30% secure admission into M.Tech program of IIT's and IISc Bangalore, 75% are placed in the campus recruitments and the balance joins NIT's, other universities, civil services and higher education. All India first rank and 14 rank was bagged by a student of this department in GATE 2009 and 2010.

THE GOALS

- To promote self-learning among students
- To help the students to develop a strong personality, so that in turn they help the Institute to realize its objectives
- To strive for academic excellence
- To sensitize students towards the needs and aspirations of the society
- To identify the core strengths of the Department and develop expertise through advanced research
- To promote Industry-Institute Interaction for mutual benefit



BOS Chairman: Prof. K.S.M.S. Raghavarao

Prof. K.S.M.S. Raghavarao, presently Professor at IIT Tirupati, worked formerly as Chief scientist and Professor, CSIR – CFTRI, Mysore. He completed his B.Tech from Andhra University, Visakhapatnam in 1981, Ph.D. from ICT Mumbai in 1987, Post-Doctoral Research from NIST, Boulder, USA in 1988. His main research area of interest is basically on the application of principles of Chemical Engineering for food process and produce development in area of Food Process Engineering as well as Food and Biotechnology. He received nearly seventeen prestigious awards from various areas. He has 10 memberships in various committees. He has over 160 Publications, 2 books authorized, 146 posters in Conferences/Symposia/Seminars etc, 76 patents granted/applied. He awarded 18 Ph.D programs, 8 in progress and 5 Postdoctoral programs under his guidance. He implemented 47 projects.



HEAD OF THE DEPARTMENT : Dr. P. Akhila Swathantra

Assistant Professor, Department of Chemical Engineering, had 18 years of teaching experience, specialized in separation processes and Environmental Engineering, guided Two Ph. D and 24 M Tech Students. Organized and attended Conferences are National 14, International Conferences 23, chaired for 3 Conferences, 23 Publications, 3 book chapter, 3 book published. Participated in 23 FDP's 14 workshops, 2 GIAN courses, 1 SERC school, Orientation and Refresher Courses. Worked as BOS External member for JNTUA and JNTUH, Additional Chief superintendent of Examinations, NAD Coordinator of SVU, and Deputy Warden for SVU Women's Hostels.



Faculty : Dr. B. Sarath Babu

Had 21 years of teaching experience, I Supervised 3 Ph.D.s and guided 24 M. Tech students. Published 27 Technical Papers published in journals and 2 books. 8 international and 14 national conferences, attended 14 faculty development programmes, 6 short term training courses, 2 GIAN courses, 1 SERC school, 16 workshops, orientation Programme and 1 Refresher course. I organized 10 National conferences/seminar/STTP. During service at SVU, held posts like Deputy Warden, Additional Chief Superintendent of Examinations, NSS programme Officer, NCC officer, and BOS Member.

ACADEMIC CONSULTANTS	Dr. D. Hymavathi Ch. Venkata Krishnaiah B. Manjula
Courses offers : B.Tech , M.Tech, Ph.D in Chemical Engineering Specializations: Bio Separations, Bio Chemical Engineering, Environmental Engineering, Reactive Distillations	

Laboratories in the department	
➤ Momentum Transfer Lab	➤ Chemical Analysis Lab
➤ Mechanical Unit Operation Lab	➤ Instrumental Analysis Lab
➤ Heat Transfer Lab	➤ Computational Techniques Lab
➤ Mass Transfer Operations Lab – (I & II)	➤ Process Dynamics Lab
➤ Chemical Reaction Engineering Lab	➤ Bio-Technology and Instrumentation Lab

Ph.D's awarded : 09

Fellowships - staff ,Students : 4 Students

S.No	Name of the Research fellow	Year of enrolment	Duration of fellowship	Type of the fellowship	Granting agency	Qualifying exam if any
1	P.Sreedhar	2014	5 Years	RGNF	UGC	RSET
2	J.Uday Sekhar	2014	3 Years	TEQIP	TEQIP	RSET
3	J.Vijaya Shanthi	2014	3 Years	TEQIP	TEQIP	RSET
4	N.Meenakshi	2015	3 Years	TEQIP	TEQIP	RSET

Conferences/Seminars/Workshops - Organized – Details – Date, Title of the Seminar/Conference /Workshop, Funding agency Grant aid			
S.No	Date	Title of the Seminar/Conference/Workshop	Funding agency Grant aid
1	6 th -- 9 th March 2017	Short term training course on sustainable waste management	Principal Account
2	10 th -- 11 th March, 2017	Pollution Control strategies in chemical & related industries (PCSCRI -2017)	Principal Account
3	20 th -- 27 th March, 2019	CHEMOSPHERE -19	Principal Account
4	23 rd -- 24 th September, 2019	Chemosphere-VAJRA	Principal Account
5	26 th February, 2021	National Workshop on Technological API	Principal Account
6	18 th to 20 th August 2022	Centenary Celebrations of founder principal of SVUCE, Prof G.Ramakrishnan in Association with SVUCE Alumini	Alumini of SVUCE