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Dr. N.N.S. Rao



**A Five-Day
Faculty Development Programme**
(Online Mode)



On

Chemical Process Simulation Using DWSIM

11 – 15 November, 2024

Organized by

Department of Chemical Engineering
Gayatri Vidya Parishad College of Engineering
(Autonomous)

Accredited by NAAC with 'A++' Grade for 7 years in the 3rd Cycle
Madhurawada, Visakhapatnam - 530 048.
Andhra Pradesh, India.
www.gvpce.ac.in

&

IChE Training Institute
Indian Institute of Chemical Engineers
Kolkata

ABOUT THE INSTITUTION

Gayatri Vidya Parishad College of Engineering (A) [GVPCE(A)] was established in 1996 by Gayatri Vidya Parishad, a premier educational trust, to promote technical education. The GVPCE(A) offers 10 B.Tech., 5 M. Tech programmes and one MCA with an annual intake of 1260. The college is accredited by NAAC with 'A++' Grade for 7 years in the 3rd cycle. Autonomous status was recommended by UGC and conferred by JNTU-K in the year 2009. The institute reached another mammoth milestone by receiving fund to the tune of Rs. 5 crore under subcomponent 1.2 of Technical Education Quality Improvement Program Phase II (TEQIP-II) for Scaling up PG Education and demand-driven Research & Development and Innovation in the country. It is recognized by Indian Society for Technical Education as "The Best Engineering College" of Andhra Pradesh and Telangana States. The college has 122 Doctorates out of 244 Faculty. The college received Rs. 12 Crores from funding organizations DST / NBHM / ARB / AICTE etc. towards 45 R&D projects. Research and Consultancy projects, dedicated faculty, well equipped laboratories, good infrastructure and meritorious students are the major strengths of the Institution. The institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real world experiences

ABOUT THE DEPARTMENT

Department of Chemical Engineering was established in 1996. The Department has highly qualified faculty members and experienced from diverse research areas. It has completed four projects sanctioned by AICTE. The Department is accredited by NBA for four times starting from 2003. The Department has signed MOU's with various industries to build Industry-Institute interaction. Major equipment like AAS, High pressure Reactors, GC etc., are available to facilitate research. State of art software like COMSOL Multiphysics for CFD, DWSIM, PRO-II, MATLAB, Triangle Simulation software is available for simulation works.

OBJECTIVES OF THE FDP

In today's competitive academic environment, it is essential for educators to stay updated with the latest tools and technologies in the field of chemical engineering. This Faculty Development Programme aims to equip participants with the knowledge and skills to effectively use DWSIM, an open-source chemical process simulator, in their teaching and research.

In this Faculty Development Programme, expert lectures are arranged to understand the significant features of simulator and simulation. Also, the participants will gain hands-on experience with DWSIM, learning how to effectively incorporate it into their curriculum to enhance students' understanding of process design and simulation.

The training will cover simulation studies on the following:

- Generation of VLE data, determination of BUBL & DEW Points,
- Simulation of Shortcut Distillation Column and Rigorous Distillation Column,
- Simulation of Absorption Column,
- Simulation of Shell & Tube Heat Exchanger,
- Simulation of Reactors,
- Simulation of Extractive Distillation.

RESOURCE PERSONS

- Dr. Kannan M Moudgalya IITB, Mumbai
- Dr. Kannan Aravamudan IITM, Chennai
- Dr. B. Srinivas, GVPCE (A), Visakhapatnam
- Dr. B. Sreenivasulu, GVPCE (A), Visakhapatnam
- Dr. C.V. Nageswara Rao, GVPCE (A), Visakhapatnam

Hands on DWSIM practice sessions will be given on all days by

- Dr. C. V. Nageswara Rao, GVPCE (A), Visakhapatnam
- Dr. B. Sreenivasulu, GVPCE (A), Visakhapatnam

WHO CAN PARTICIPATE

All Industry personnel, Faculty of Chemical Engineering/Petroleum Engineering/Petrochemical Engineering and Research Scholars from AICTE approved engineering colleges can participate. An E-certificate (containing attendance and performance grade based on regularity and performance test conducted at the end of the program) will be issued to the participants.

REGISTRATION

For Industry Personnel: Rs 1000/-

For Faculty Members: Rs. 500/-

For Research Scholars: Rs. 200/-

Following is the link for the registration form.

<https://forms.gle/X3S3x3aUqBHR5xzi6>

All participants will be sent the meeting link before the program.