



Gayatri Vidya Parishad College of Engineering

(Autonomous)

Madhurawada, Visakhapatnam - 530048

Approved by AICTE, New Delhi and Affiliated to JNTU - Kakinada

Accredited by NBA & NAAC with "A" Grade with a CGPA of 3.47/4.00

Department of Chemical Engineering

EXPERIMENTAL FACILITIES AVAILABLE:

- **Sea water RO desalination Unit (JENGU waters Ltd.,)**

- **Industrial Pollutants Lab**
 1. Atomic Absorption Spectrophotometer,
 2. BOD Reactor,
 3. DO Meter,
 4. TDS Meter
 5. pH Meter
 6. EC Meter,
 7. Turbidity Meter,
 8. Calorimeter,
 9. UV Spectrophotometer,
 10. Photo Catalytic Reactor (UV),
 11. Digital Flame Photo Meter

- **Process Control Laboratory**
 1. Distillation Column,
 2. Absorber,
 3. CSTR and Heat Exchanger with controls,

- **Advanced Chemical Engineering Research lab**
 1. High Pressure Parr reactor,
 2. Gas Chromatograph,
 3. Muffle Furnace,
 4. Conradson furnace,
 5. High pressure reactor,
 6. Ring and ball Softening point apparatus,
 7. Brooke field viscometer,
 8. Dean & stark apparatus.

FUNDED RESEARCH PROJECTS:

1. Modernization of the Process Control Laboratory is funded by AICTE under MODROBS for 13 lakhs- completed.
2. Applications of Bootstrapping techniques to regression problems- Analysis of catalytic rate models funded by AICTE under RPS for 9.2 lakhs- completed.
3. Environmental Friendly Anti Fouling Paints Schemes on Hull Appendages in collaborations with IMU funded by DST for 38 lakhs- in progress.
4. Production of Mesophase pitch suitable for carbon fibers funded by AICTE under RPS for 11.3 lakhs- completed.
5. Modernization of Analysis of Industrial Pollutants Lab is funded by AICTE under MODROBES for 6.85 lakhs- completed.

M.O.U. WITH INDUSTRIES

1. VASUDHA PHARMA CHEM LIMITED
2. ECO LOGIC TECHNOLOGIES LTD
3. JENGU WATER LTD

INDUSTRY INSTITUTE – SUITABLE FOR MTECH PROJECTS

1. HIMADRI CHEMICALS INDUSTRIES LIMITED, VIZAG
2. VISAKHAPATNAM STEEL PLANT, VIZAG
3. BHARAT HEAVY ELECTRICALS LTD. R&D, HYDERABAD
4. INDAIN INSTITUTE OF CHEMICAL TECHNOLOGY-HYDERABAD
5. CHENNAI PETROLEUM CORPORATION LTD-CHENNAI
6. THE ENERGY AND RESOURCES INSTITUTE (TERI) -NEW DELHI
7. NATIONAL CHEMICAL LABS-PUNE
8. RELIANCE INDIA LTD-KAKINADA
9. NATIONAL INSTITUTE OF OCEANOGRAPHY-VISAKHAPATNAM

COMPUTATIONAL SOFTWARES AVAILABLE:

- COMSOL MULTIPHYSICS CFD SOFTWARE.
- PRO-II FROM SCHNEIDER ELECTRIC SOFTWARE FOR PROCESS SIMULATION.
- MATLAB FOR GENERAL SIMULATION.
- TRIANGLE SIMULATION SOFTWARE FOR REAL TIME SIMULATION.

Faculty Profile

S.No	Name	Designation	Specialization
1	Dr G. Murali Dhar	Sr. Professor	Hydrotreating, Hydro Desulphurization, Catalyst Development
2	Dr B.Srinivas*	Professor	Mathematical Modeling, Simulation
3	Dr. Aditya Mukherjee*	Professor	Two Phase flow, Interfacial Phenomena
4	Dr M.S.N. Murty*	Professor & Head	Mass Transfer, Three Phase Fluidization
5	Dr. J.V.S. Murty	Professor	Petroleum Refinery Engg., Coal Chemicals
6	Dr. B. Sreenivasulu*	Associate Professor	Fuel cell, Process Control, Process Modeling and Simulation
7	Dr. C.V. Nageswara Rao*	Associate Professor	Process Control, Process Modeling and Simulation, Separation Processes
8	Dr. K. Siva Kumar*	Assistant Professor	Membrane Separation, Modelling & Simulation

*Faculty members above are recognized as Research Supervisors by JNTUK- Kakinada