राष्ट्रीय प्रौद्योगिकी संस्थान वारंगल

National Institute of Technology Warangal

An Institute of National Importance



DEPARTMENT OF CHEMICAL ENGINEERING

PhD Brochure

Applications are invited for admission to the PhD program in the Department of Chemical Engineering NIT Warangal for July - 2024 Session

Key Highlights

- Opportunity to work in multi-disciplinary research.
- Industrial interface and placement support.
- Excellent infrastructure and facilities.
- Travel support to conferences.
- Department is sanctioned with FIST grant by DST.
- Executed sponsored research projects worth 8.5 crores in the last 5 years.
- Number of papers published in the last 5 years: 264
- Conference proceedings: 187
- Patents granted: 8
- Patents filed: 5; Technology Transfer: 6

Research Areas

- Biomass gasification
- Fuel cells
- Hydrogen generation and storage
- Membrane processes
- Bio reactors
- Batteries and supercapacitors
- Reactive distillation
- Chemical process scheduling
- Micro fluids
- Multiphase flows
- Interfacial science
- Chemical reactor analysis and design
- Sustainable and energy efficient technologies
- Micro Reactors
- Process control
- Process intensification
- Nonlinear analysis
- Nanotechnology and Nano materials
- Bioenergy and biofuels
- Catalysis
- Corrosion Engineering
- Functional materials
- Pharmaceuticals and Fine chemicals
- AI and Machine Learning
- Polymer and composite materials
- Drug Design and Delivery
- Carbon capture,sequestration and utilization
- Chemical process modeling,Simulation and optimization
- Transport processes
- Circular Economy
- 3D printing
- Agricultural Engineering
- Molecular Simulations
- Fluidized bed operations
- Computational fluid dynamics
- Wastewater Treatment

Available Schemes : 1. Full Time 2. Part Time 3. QIP

PhD Admissions Link : https://admissions.nitw.ac.in/register/?next=/

Who can apply??

M.Tech with/without GATE score

B.Tech with valid GATE score

M.Sc/M.Pharm with GATE/NET/GPAT

Some of the selected candidates will have the opportunity to work on international SPARC projects and conduct a portion of their research in global research laboratories.

Funding Agencies and Research Collaborations

Application Deadline: 03-04-2024

Further Contact : Prof.P.V.Suresh, E-mail : chemical_hod@nitw.ac.in; Tel: 08702462600

Department link : https://www.nitw.ac.in/path/?dept=/che

For more details : https://admissions.nitw.ac.in/static/files/2024/Brochure_july_2024.pdf