

REGISTRATION FORM
**FACULTY DEVELOPMENT TRAINING
PROGRAMME
ON
CH3352 FLUID MECHANICS FOR
CHEMICAL ENGINEERS**
24th to 29th July, 2023

1. Name: _____

2. Designation: _____

3. Qualification: _____

4. Department: _____

5. Institution: _____

6. Teaching Experience (years): _____

7. Address for Communication:

8. E-mail ID : _____

9. Mobile No: _____

DECLARATION

The information provided by me is true to the best of my knowledge. I agree to abide by the rules and regulations governing the Faculty Development Training Program. If selected, I shall attend the program for the entire duration.

Date: _____ Signature of the Applicant

SPONSORSHIP CERTIFICATE

This is to certify that Prof. /Dr. /Mr. /Mrs. /Ms is an employee of our Institution /Organization and is hereby permitted for the above Faculty Development Training Program, if selected.

Date: _____ Signature & Seal of the
Head of the Institution

ADDRESS FOR COMMUNICATION

The Coordinator,
FDTP on Fluid Mechanics for Chemical Engineers,
Department Of Applied Science and Technology,
AC Tech Campus,
Anna University,
Chennai – 600 025.
Mobile No: **9962523696, 9444021946**
044-2235-9220/9216
E Mail Id: fdtpfm2023@gmail.com

**PHYSICAL MODE SIX DAY FDTP
ON
CH3352 FLUID MECHANICS FOR
CHEMICAL ENGINEERS**

24th to 29th July, 2023

CO-ORDINATORS

Dr. M. DHARMENDIRAKUMAR

Dr. J. JAYAPRIYA



Sponsored by

**CENTRE FOR FACULTY & PROFESSIONAL
DEVELOPMENT,
ANNA UNIVERSITY,
CHENNAI – 25.**

Organized by

**DEPARTMENT OF APPLIED SCIENCE
AND TECHNOLOGY,
AC TECH CAMPUS, ANNA UNIVERISTY,
CHENNAI – 600 025.
TAMIL NADU**

ABOUT THE DEPARTMENT

The **Department of Applied Science And Technology (DAST)** was established in the year 2013 in AC Tech Campus Anna University, Chennai. The department thrives to accomplish its vision of developing proficient students along with promising and challenging careers. The Department offers exulting opportunities and unbeaten learning for Under graduates in the field of **Petroleum Engineering and Technology** and Post Graduate programme in **Industrial Safety and Hazard Management** (Approved by the Labour and Hazard Management (GO: (MS) No.27 on 03.02.2015) Govt. Of Tamil Nadu).

The Department also offers MS Research/ Ph.D with specialization in various fields of Material science; Catalysis and reaction engineering; Alternate Fuels; Enhanced oil recovery; Drilling fluids; Process system engineering; Energy storage; Environmental Engineering; Waste Valorization; Polymer Technology; Combustion and explosion protection; Environmental impact assessment; Industrial Hygiene; Probabilistic safety assessment.

The Department has sponsored research projects with funding from various agencies such as DST, CSIR, UGC-DAE, DRDO, BRNS and DBT etc., The Department also received grant of worth Rs. 95 lakhs from (DST) under Fund for improvement of S & T infrastructure (FIST) Government of India, program vide letter No SR/FST/ET-1/2017/44(C) dt.10.08.2018. Industrial consultancy are also being undertaken by the Department.

VISION

The Department of Applied Science and Technology will achieve worldwide recognition for exceptional academic standards and cutting-edge research in the fields of oil and natural gas exploration, petrochemical production and safety management systems.

OBJECTIVE OF THE PROGRAMME

The objective of organizing this FDTP in Fluid mechanics is to provide a forum for interaction among the young faculty with experts from the academic institutions and industry to enrich their knowledge in the three aspects of the fluid: static, kinematics and dynamics for different sectors of chemical and oil & gas industry.

The six-day program aims at covering all the topics based on the five units of the course, such as:

- ✓ Introduction to Fluid Mechanics - Fluid types.
- ✓ Fluid statics - pressure distribution in a static fluid, hydrostatic forces on plane surfaces.
- ✓ Macroscopic Balances - Control Volume, Energy and linear momentum balances, Bernoulli equation.
- ✓ Differential Balances: Differential equation of mass conservation and linear momentum, Navier-Stokes equations.
- ✓ Viscous flow in a pipe/duct: Head loss, friction factor, frictional loss in high Reynolds no. flow, Effect of wall roughness, Moody chart.
- ✓ Losses in pipe systems: pipe entrance/exit, expansion/contraction, Fittings, valves.
- ✓ Dimensional analysis and similarity: Buckingham Pi theorem, Non dimensionalization of continuity and Navier-Stokes equations, dimensionless numbers and its applications
- ✓ Fluid Meters: Local velocity measurement, Volume flow measurement, Thin- Plate orifice, flow nozzle, venture meter.
- ✓ Classification and Performance Characteristics of Pumps, Fans and Compressors.

ABOUT REGISTRATION

- ✓ Faculty members from AICTE approved Engineering Colleges having Chemical Engineering, Petroleum Engineering & Petrochemical Technology and other allied Engineering branches affiliated to Anna University, Chennai can participate.
- ✓ Number of participants is restricted to 50 only.
- ✓ No Registration fee.
- ✓ No TA/DA will be paid.

Scanned copy of duly filled in Registration form may be sent to the Co-ordinators by e-mail (fdtpfm2023@gmail.com) on or before 21st July, 2023.

RESOURCE PERSONS

Experts from IIT,NIT, PEC, and Anna University will deliver the lectures.

ORGANIZING COMMITTEE

CHIEF PATRON : **Dr. R. Velraj**
Vice Chancellor
Anna University.

PATRONS : **Dr. J. Prakash**
Registrar i/c
Anna University
Dr. R.Jayavel
Dean, AC Tech Campus
Anna University, Chennai.

CHAIR : **Dr. P. Vanaja Ranjan**
Director, CFPD

Dr. V. Adaikkalam
Addl. Director, CFPD

CO-CHAIR : **Dr. J.Jayapriya,**
Head of the Department,
Department of Applied
Science & Tech,
Anna University, Chennai.

CO-ORDINATORS : **Dr. M.Dharmendirakumar**
Professor-DAST

Dr. J.Jayapriya
Professor-DAST

VENUE

Techni Hall, Room No: 210,
First floor, Platinum Jubilee Building,
AC Tech Campus, Anna University,
Guindy, Chennai-600025

IMPORTANT DATES

Submission of Application : **21.07.2023**
Intimation of Selection (by email) : **22.07.2023**
Confirmation by Participants : **22.07.2023**