CoE
Center of Excellence
for Drug Discovery

Postgraduate Diploma in Sophisticated Instrumentation Techniques for Pharma and Related Industries - PGDSI

INTRODUCTION TO COURSE

It is a 1 Year course, "Postgraduate Diploma in Sophisticated Instrumentation Techniques for Pharma and Related Industries - PGDSI", carried over here at Centre of Excellence, Department of Chemistry, Saurashtra University, Rajkot.

The course is designed to cater the needs of research students and technical staff in science, professionals working at R & D labs / Chemical industry in Government organizations and private sectors.

Instrumental methods for chemical analysis have become the principal means of obtaining information in diverse areas of science and technology. The speed, high sensitivity, low limits of detection, simultaneous detection capabilities and automated operation of modern instruments, when compared to classical methods of analysis, have created this predominance.

The aim of this course is to bring sufficient knowledge about the major instrumental methods for analytical development for understanding various structural aspects of all kinds of materials.

The training program will focus both on theoretical as well as practical knowledge of instrumentation techniques.

COURSE FEE

The course fee shall be ₹ 40,000 per year

The participants will have to make their own arrangements to meet the Boarding and lodging can be arranged in Saurashtra University’s hostel upon prior request and on payment basis. Only limited seats are available in the course.

The candidates should possess B.Sc. / B.Pharm. / M.Sc. / M.Pharm.

About Centre of Excellence

Work as an extended hand in R & D for pharma industries like Process technology including, Green Chemistry approach. Analytical Support Regulatory (help getting GMP, WHO, US FDA & European approvals), Intellectual property (IPR & Patents)

Help new entrepreneurs for ever growing market demand for Chemical, Drug, Food, Plastic polymer and composites.


Course Duration

1 Year / 2 Semester

PG Diploma holders can absorb directly in

Drug and Pharma, Food & Nutrion,
Paint & Polymer, Petro Chemicals, Govt. Laboratories
Heavy Chemicals, Fine Chemicals, Cement, Rubber, Metal

Benefits of the course

- Better understanding of operating Hi-Tech equipments with confidence
- knowhow of maintaining the equipment in good working conditions
- Knowledge to trouble shooting in the equipment.
- Value added certified course of instrumental skills

Contact Details

NFDD Complex, Department of Chemistry, (UGC SAP & DST-FIST Funded), Saurashtra University, Rajkot 360005
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Department of Chemistry
(DST-FIST funded; DST-PRP, supported & UGC - SAP sponsored)
Saurashtra University - Rajkot - 360 005
www.saurashtrauniversity.edu

Download from our website
www.coefdd.com

Individual Hand to Hand Training Program
List of Instruments

**NMR SPECTROMETER**
BRUKER AVANCE - III-400 MHZ FT-NMR

**SINGLE CRYSTAL XRD**
RIGAKU SCX MINI X-RAY CRYSTALLOGRAPHY

**HEAD SPACE-GC**
PERKIN ELMER CLARUS 500 HEADSPACE GC

**GC-MS INSTRUMENT**
SHIMADZU QP – 2010

**UPLC**
WATERS ACQUITY UPLC

**HPLC**
WATERS 2489-UV 600-CONTROLLER
SHIMADZU SPD-M 10 A-VP

**UV-VISIBLE**
SHIMADZU UV-1700

**ELEMENTAL ANALYZER**
EURO VECTOR EA3000 CHNS-O ANALYSER

**FLASH CHROMATOGRAPHY**
BIOTAGE SP1 FLASH CHROMATOGRAPHY

**GA/DTA/DSC**
SHIMADZU TGA/DSC/DTA

**ION CHROMATOGRAPHY**
METROHM IC-761

**STABILITY CHAMBERS**
NEWTRONIC CHAMBERS INCLUDING PHOTO STABILITY

**KARL FISHER TITRATOR**
METROHM 877 TITRINO PLUS

**HPTLC**
CAMAG TLC SCANNER3, LINOMAT3

**TENSIOMETER**
SHIMADZU AUTOGRAPH ASTM-D-638 IV

**REFRACTOMETER**
ANTON PAAR ABBEMAT

**pH METER**
METROHM 827 PH LAB

**POLARIMETER**
ANTON PAAR MCP-200

**DENSITOMETER WITH SOUND VELOCITY**
ANTON PAAR DSA 5000M

**MICROWAVE SYNTHESIZER**
ANTON PAAR - MONOWAVE 300

**HYDROGENATOR & SHAKE**
AMAR EQUIPMENT

**ROTAVAPOR**
HEIDOLPH ROTAVAC VALVE CONTROL

**DEHUMIDIFIER**
SUJAY INC

**WATER PURIFICATION SYSTEM**
MILLIPORE ELIX-3

**FT-IR**
SHIMADZU FT-IR 8400

**PARALLEL SYNTHESIZER**
RADLEYS CAROUSEL 12 PLUS

**New Facility to Come very soon**

- LC-MS-MS
- Pilot Plant
- Hot-Stage Polarizing Microscope
- Electron Microscope
- Atomic Absorption
- Spectrophotometer
- FT-IR
- Prep HPLC
- Microwave Synthesizer - 2
- Lyophilyzers
- Sonicators
- Deuteration Infrastructure

Application Form

You can also download from the website
www.coenfdd.com