THE NORTHCAP UNIVERSITY

Internship Program By

Central Research Facility-NCU

www.ncuindia.edu

CENTRAL RESEARCH FACILITY-NCU

Central Research Facility of The NorthCap University, Gurugram is mainly developed with the objective of providing a central facility of the latest and advanced analytical instruments for research in the areas of Physics, Chemistry, Engineering, and interdisciplinary sciences. The trainee will learn about the instrument in depth and acquire the needed expertise through practical instruction and practice.

ABOUT THE COURSE

The programme covers organic, inorganic, analytical, physical chemistry modules, material synthesis, characterization instruments training and data analysis and interpretation as well as relevant mathematics, engineering, and industrial practise.

HIGHLIGHTS OF COURSE

- Students who successfully complete this programme are going to have a comprehensive understanding of the molecular approach, the fundamentals of nanomaterial synthesis, the functioning of instruments, and the practical use of physics and chemistry in the marketplace.
- Graduates of the degree programmes in physics, chemistry, biotechnology, and life sciences will be prepared for successful careers in their fields as well as for further study at the Master's or Ph.D. levels by having the knowledge, research skills, and problem-solving ability required.
- Provision of certificates to all successful trainees.
- The Internship program offer certification course of 2 week, 4 week and 6 week.

2 WEEKS PROGRAM

- Hands on training of instruments
  - UV Visible Spectrophotometer (Liquid Sample)
  - Current Voltage Characteristics
  - Rotary Evaporator
  - Separation Method
- Data Interpretation Understanding
- Scanning Electron Microscopy Demonstration and Analysis

4 WEEKS PROGRAM

- Hands on training of instruments
  - UV Visible Spectrophotometer (Liquid Sample)
  - Current Voltage Characteristics
  - Rotary Evaporator
  - Separation Method (Thin Layer Chromatography)
- Data Interpretation Understanding
- Scanning Electron Microscopy Demonstration and Analysis

Any One Section with above work:

Section 1

- Water Testing (Water Quality Parameter)
  - TDS, Hardness, Alkalinity, Fluoride content, chloride-content,pH.

Section 2

- Synthesis of Nanomaterial by wet Chemical Synthesis Method.
- Centrifugation Method.

Section 3

- Formulation of bioethanol from biomass.

6 WEEKS PROGRAM

Common Section

- Hands on training of instruments
  - UV Visible Spectrophotometer (Liquid Sample)
  - Current Voltage Characteristics
  - Dielectric Measurements
  - Rotary Evaporator
  - Separation Method
- Data Interpretation Understanding
- Scanning Electron Microscopy Demonstration and Analysis

Any One Section with above work:

Section 1

- Synthesis and characterization of organic molecules
- Water Testing (Water Quality Parameter)
  - TDS, Hardness, Alkalinity, Fluoride content, chloride-content, pH, Turbidity, Conductance, dissolved oxygen (DO), biological oxygen demand (BOD) and chemical oxygen demand (COD).

Section 2

- Synthesis of Nanomaterial By wet Chemical Synthesis Method
- Centrifugation Method
  Spin Coating Method

Section 3

- Formulation of bioethanol from biomass.
- Food Analysis
- Element Testing

ELIGIBILITY CRITERIA

- UG/PG/PhD students and Industry Professionals from Science disciplines
- Completed at least the first year of bachelor's degree (minimum)

BATCH DETAILS, APPLICATION PROCEDURE AND PAYMENT

- Program will start from May 2023, (Program will run throughout the year).
- Interested students can apply directly by filling the application form.
- Requisite fee is to be deposited in full advance and details should be filled in registration form.
- The application will be opened throughout the year.
- The seat will be allotted on a first come first serve basis. After successful registration your seat, section and slot will also be confirmed via email.

Duration	2 Weeks	4 Weeks	6 Weeks
Amount	1000/-	2000/-	2500/-

SCAN TO REGISTER

Registration Link:
https://forms.gle/i37zxFLg1cKzuEgG9

ACCOUNT DETAILS

Name - **The Northcap University**
Account no - **82472010013980**
IFS Code - **CNRB0018247**

Contact Us

Dr. Tejpal Singh Chundawat

P : 9910 436 314
P : 9911 429 561

Dr. Chetna Tyagi

E : crf@ncuindia.edu
w : Central research facility (ncuindia.edu)