



RAIPUR/INDIA

**KALINGA  
UNIVERSITY**



Ranked in  
Top 101-150  
Universities



CENTRAL INSTRUMENTATION FACILITY

Announces

— INTERNSHIP PROGRAM IN —

# PHARMACEUTICAL TECHNIQUES

Date: 23<sup>rd</sup> May to 6<sup>th</sup> July 2023

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## Mission

Kalinga University aims to be an outstanding institution for Talent Development and Knowledge Creation for a vibrant and inclusive society.

# Our University

Kalinga University, Raipur is a NAAC accredited University with Grade B+ and the Only Private University in Chhattisgarh ranked in Top 101-150 Universities in NIRF Ranking 2022 and has emerged as a centre of excellence of higher education in Central India. Strategically located in the Smart City of New Raipur, this University has started carving a niche for itself in the education domain and is rising as a shining star on the horizon of quality education.

**Infrastructure** – Kalinga offers World Class Infrastructure and student facilities with student centric approach. Highest attention is paid to hands on learning approach and students are encouraged to come up with innovative ideas for projects and practical's. The University has more than 90 laboratories and workshops, all well equipped with the latest, state of the art apparatus and tools. Special emphasis is given to the development of communication skills through the language lab. More than 1000 computers are available for the use of the students.



**Establishment** – Established in 2013, this University has been able to win the confidence of over 8000 students. Meritorious students from all over the country and various foreign countries like Afghanistan, Angola, Bangladesh, Cameroon, Gambia, Ivory Coast, Kenya, Lesotho, Liberia, Malawi, Namibia, Nepal, Nigeria, Papua New Guinea, South Sudan, Swaziland, Tanzania, Uganda, Zambia, Zimbabwe, etc have chosen this University for their education and career.

**Schools of Excellence** – Currently the University is serving the student community through various UG and PG programs namely Engineering, Law, Pharmacy, Arts & Humanities, Science, Commerce & Management, Biotechnology, Information Technology, Library Science, Fashion Design & Interior Design.



# About Internship Program

The main objective of this program is to encourage the bright and well-motivated students of Kalinga University and other institutions to pursue innovative research and development of project work. This enables the trainees to gain first-hand knowledge, especially working skills with sophisticated instruments frequently used in research setup and in Pharma, Life Sciences, & Biotech industry.

## Eligibility Criteria

1. Students who are pursuing their Graduation/Post-Graduation and are in their final semester are eligible for 45 days internship program.
2. Pursuing Post-Graduation in the fields of Pharmaceutical/Chemical/Life Sciences leading to M.Pharm./M.S./M.Sc. degree from any recognized Indian/Foreign University.
3. One page curriculum vitae/bio-data of the participant.
4. Based on the merit, the students will be shortlisted and intimated via e-mail.
5. The students need to fill the Application Form for internship and furnish all relevant information/documents as mentioned in the application form.

## Who Should Attend

Beneficial For - Students of UG/PG Programs & Research Scholars of Pharmacy, Biotechnology, Botany, Zoology, Microbiology, Biochemistry, Bioinformatics & other Life Sciences.

## “ Resource Persons ”

**Dr. Sandip Prasad Tiwari**  
Principal,  
Faculty of Pharmacy  
Kalinga University

**Mr. Sudeep Mandal**  
Assistant Professor,  
Faculty of Pharmacy  
Kalinga University

**Ms. Khushboo Gupta**  
Assistant Professor,  
Faculty of Pharmacy  
Kalinga University



# Program Details

Duration : 45 Days

Date: 23rd May to 6th July 2023

Time: 10:00 am to 4:00 pm

VENUE: Central Instrumentation Facility,  
Kalinga University

PROGRAM FEE

**RS 10,000/-**



NOTE -

1. Accommodation facility is available on a chargeable basis: Rs 6,500/- for 45 days inclusive of Food (Air Cooled Room- 4 Students/Room, 3 Meals per day & other amenities).
2. Transport Facility available from common pickup point (Free).

## Steps For Registration

STEP 1: Participants have to make payment on the given bank details

Account Name: Kalinga University

Bank Name: ICICI Bank

A/c No.: 390701000010

IFSC Code No.: ICIC0003907

SWIFT CODE: ICICINBBCTS

STEP 2: Take screenshot of the payment & send it to

[cif@kalingauniversity.ac.in](mailto:cif@kalingauniversity.ac.in)

STEP 3: Fill out the registration form with all the necessary information.

SCAN TO PAY



REGISTER HERE



CONTACT DETAILS

+91-9907824851 | [cif@kalingauniversity.ac.in](mailto:cif@kalingauniversity.ac.in)

# Program Schedule

## Module I Pharmaceutics

S.No.	Topics	Duration
1.	Introduction about Novel Drug delivery systems	10 days
2.	Preparation of Liposomes	
3.	Characterization of Liposomes	
4.	Preparation of Ethosomes	
5.	Characterization of Ethosomes	
6.	Preparation of Floating Beads	
7.	Characterization of Floating Beads	

## Module II Instrumental Analysis

S.No.	Topics	Duration
1.	Introduction and handling of UV Spectroscopy	10 days
2.	Determination of Calibration curve by UV Spectroscopy	
3.	Determination of sample purity by UV Spectroscopy	
4.	Introduction to FTIR Spectroscopy	
5.	Introduction to FTIR Spectroscopy	
6.	Introduction and SOP of HPLC	
7.	Sample determination through HPLC	
8.	Introduction to XRD & SEM and Application	
9.	Sample analysis on XRD & SEM	

### Module III Pharmacology & Toxicology

S.No.	Topics	Duration
1.	All laboratory techniques and animal simulated experiments by software demonstration	10 days
2.	DRC of acetylcholine using frog rectus abdominus muscle	
3.	Analgesic activity of drug using central and peripheral methods.	
4.	Anti-inflammatory activity of drugs using carrageenan induced paw-edema model	
5.	Bioassay of histamine by matching method.	

### Module IV Drug Design Via Software

S.No.	Topics	Duration
1.	ACD ChemSketch	10 days
2.	Cambridge ChemDraw Ultra	
3.	Chem3D	
4.	Autodock	

### Module V Phytochemical Analysis

S.No.	Topics	Duration
1.	Development of fingerprint of selected medicinal plant extracts commonly used in herbal drug industry	5 days
2.	Phytochemical screening & Monograph analysis	
3.	Identification of bioactive constituents from plant extracts	
4.	Methods of extraction & Analysis of recorded spectra of simple phytoconstituents	



Kotni, Near Mantralaya, Naya Raipur,  
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[www.kalingauniversity.ac.in](http://www.kalingauniversity.ac.in)

