



RAIPUR | INDIA

KALINGA UNIVERSITY



Ranked in
Top 101-150
Universities

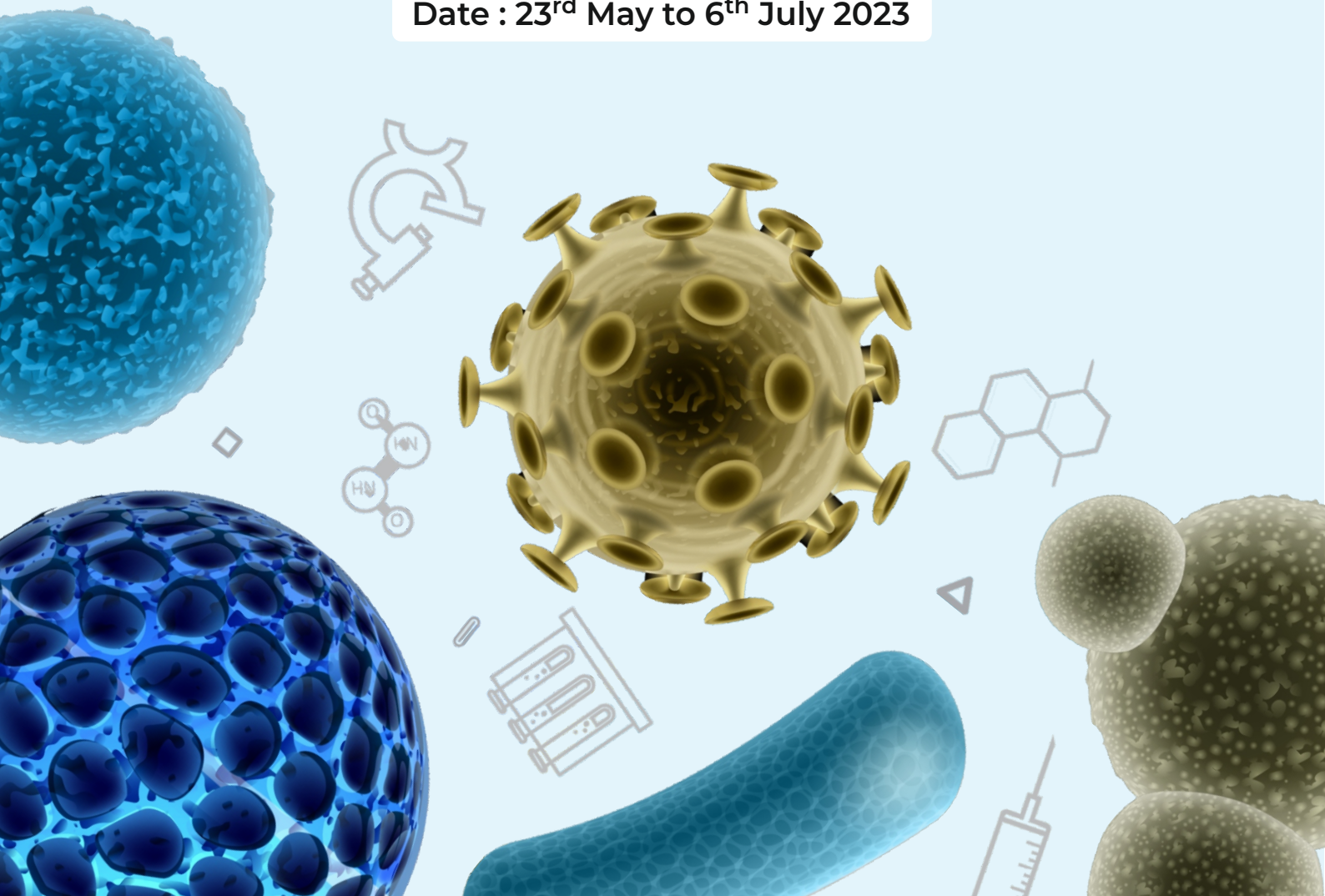


Central Instrumental Facility Announces

45 DAYS INTERNSHIP PROGRAM
ON

BIOTECH TOOLS & TECHNIQUES

Date : 23rd May to 6th July 2023



www.kalingauniversity.ac.in

Kalinga University, Kotni, Near Mantralaya Naya Raipur – 492101, Chhattisgarh, India.

ABOUT KALINGA UNIVERSITY

Kalinga University, Raipur 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.

About Raipur - Raipur is the Capital of Chhattisgarh and New Raipur is the New Capital of Chhattisgarh in the making. New Raipur is the fourth planned city of India with wide roads and miles of greenery and is pollution free. It is the first integrated and smart city of the country. A cosmopolitan city which is also the hub of higher education hosts IIM, IIT, IIIT, National Law University, CIPET, NIT and AIIMS. In addition it also hosts most National and International Brands of Food and Retail Outlets.

Establishment - Established in 2013, this University has been able to win the confidence of over 7000 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 and Zimbabwe etc. have chosen this University for their education and career.

Schools of Excellence - Currently the University is serving the student community through various schools offering UG and PG programs namely Arts & Humanities, Biotechnology, Commerce & Management, UX Design, Engineering, Fashion Design, Information Technology, Interior Design, Journalism & Mass Communication, Law, Library Science, Pharmacy, Science, Education and Yoga. It also has a centre for Doctoral Research Programmes in various fields.

Academics and Faculty - All schools are headed by senior professors having excellent academic credentials and experience of teaching, publications and research. They are ably supported by the well qualified faculty members who come from top educational institutions and the Industry. Students also get an opportunity to learn from a distinguished panel of experts drawn from various industries, who regularly come for guest lectures.

Infrastructure - Kalinga boasts of 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 practicals. The University has more than 75 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 1200 computers are available for the use of the students.

The Library has a collection of over 80,000 books and also offers digital content through membership of DELNET, National Digital Library and NPTEL. Various magazines and journals are available for the use of the faculty and students. Infrastructure consists of Student Hostel facilities, Green Acres, Canteen, Food Mess, Gymnasium, Fully Wi-fi Campus, ATM, Mini Market, Student hangout Areas, Sports Complex, Recreation Halls with Indoor Games and Music and recreation activities.

Industry Orientation and Leadership - Industry interaction is an integral part of the curriculum and industrial visits, internships on live projects and mentoring by the Industry leaders are regular features. The University has developed excellent connections with the top Industries of the region by taking memberships of leading industrial associations like Confederation of Indian Industries, PHD Chamber of Commerce and Industry, Federation of Indian Chamber of Commerce and Industry, Indian Importers Chamber of Commerce and Industry, etc. The University has an active chapter of Young Indians in which students get an opportunity to interact extensively with the Industry leaders and attend various corporate seminars and events.

Life Changing Experience - Kalinga is a Life Changing Experience where the focus is on over all development of students. NCC, NSS and various other clubs and societies offer opportunities to students to showcase their talent and learn under the guidance of experts. Music, Dance and Martial Arts trainers are available for the students. Coaches of different games and sports like Cricket, Football, Basketball, Volleyball and Athletics are also available for sharpening the skills of the students.



ABOUT SUMMER INTERNSHIP PROGRAM

- The main objective of this program is to encourage the bright and well-motivated students of self and different 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 the biotech industry.

PROGRAM DETAILS

Duration: 45 Days | Date : 23rd May 2023

Time: 10:00 AM to 4:00 PM | Venue: Kalinga University

Program Fee: Rs 10,000/-

Note:

1. Accommodation facility is available on chargeable basis: Rs 6,500/- for 45 days inclusive of Food(Air cooled room- 4 students/room, 3 meals per day and other amenities).
2. Transport Facility available from common pickup point(free).

ADVANTAGES

- Help the students develop the skills and employability competencies
- It provides an opportunity for students to apply theoretical knowledge acquired in the classroom with practical application of knowledge required to perform a task
- It gives the students a feel of how their work environment will be when they join the company. Industrial training also gives the students exposure to students on the tools used in the industry.
- Development of in-hand biological science process skills enable students to better understand science and perform better during interviews. As practical skilled knowledge is the most important aspect of technology-driven science like Biotechnology or Bioinformatics.
- Internships provide students numerous perks: They gain experience, develop skills, make connections, strengthen their resumes, learn about a field, and assess their interests and abilities.

STEPS FOR REGISTRATION

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

IFSC Code No.: ICIC0003907

SWIFT CODE: ICICINBBCTS

A/c No.: 390701000010

Bank Name: ICICI bank

Account Name: Kalinga University

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

sushma.dubey@kalingauniversity.ac.in

SCAN TO PAY



SCAN TO REGISTER



REGISTRATION LINK

https://docs.google.com/forms/d/1ru-B5azDVdXB6CD0oM263fcfIMKz62ADNjI29cA5_ks/edit

RESOURCE PERSON:

Dr. Sushma Dubey | Dean - Life Science

CONTACT DETAILS:

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PROGRAM SCHEDULE

Module I – Microbiology

S.No.	Topics	Duration
1.	Media Preparation	9 Days
2.	Sterilization	
3.	Serial Dilution	
4.	Pour Plate Method	
5.	Spread Plate method	
6.	Culture Broth Preparation	
7.	Growth Kinetics of Microbes (Grams Staining, Acid Fast Staining & Endospore Staining)	
8.	Casein Hydrolysis test	
9.	Antibiotic Sensitivity Test	

Module II - Molecular Biology

S.No.	Topics	Duration
1.	DNA Isolation from Bacteria	9 Days
2.	Plasmid DNA Isolation & Electrophoresis	
3.	DNA Isolation From Plant Leaves & Electrophoresis	
4.	RNA Isolation From Leaves	
5.	Formaldehyde Gel Electrophoresis	
6.	Quantification of genomic DNA & RNA	
7.	PCR Amplification & Its Electrophoresis	
8.	Multiplex PCR & Its Electrophoresis	

Module III – Biochemistry

S.No.	Topics	Duration
1.	Isolation of Protein From Different Sources	9 Days
2.	Protein estimation by Lowry's Method	
3.	Separation of Amino acids by Thin Layer Chromatography	
4.	Separation of Compounds by Paper Chromatography	
5.	Purification by Column Chromatography	
6.	Estimation by sugar by DNS Assay	
7.	Estimation of Amino Acid	

Module IV - Recombinant DNA technology

S.No.	Topics	Duration
1.	Sequence Retrieval	9 Days
2.	Primer Designing	
3.	L.B. Broth Preparation & Sterilization	
4.	Culturing & Multiplication	
5.	Plasmid DNA Isolation	
6.	Electrophoresis	
7.	PCR	
8.	Restriction Digestion	
9.	Ligation and Competent Cell Preparation	
10.	Transformation and Screening of Transformants	

Module V - Basic Bioinformatics

S.No.	Topics	Duration
1.	Introduction to Bioinformatics & NCBI	9 Days
2.	Study of Various file Formats	
3.	Sequence retrieval from Databases	
4.	Alignment of Sequences Using BLAST	
5.	Primer Designing for a given Sequence	
6.	Protein Modelling tools: Rasmol, Swiss Protein Data Bank Viewer	