



— INTERNSHIP PROGRAM IN —

# CIVIL ENGINEERING

Faculty of Technology  
Department of Civil Engineering

**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 practicals. 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 objective of the internship program is to provide a platform for the students of Kalinga University and other institutions to enhance the practical skills and to develop career opportunities.



## Advantages

- Hands-on opportunities to work with technology and equipment.
- Increases self-confidence and motivation.
- Provides an opportunity to gain valuable work experience prior to graduation.
- Improves the curriculum vitae.
- Competitive advantage in the job market.

## Who Should Attend

Working Professionals, UG and PG Students & Research Scholars of the Department of Civil Engineering

## “ Resource Persons ”

**Dr. C.P.Jawahar**  
Dean,  
Faculty of Technology  
Kalinga University

**Dr. N. K. Dhapekar**  
Head of Department,  
Civil Engineering  
Kalinga University

# Program Details

Duration: 45 Days

Date: 23rd May to 6th July 2023

Monday to Saturday

Time: 10:00 am to 4:00 pm

Venue: 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 a screenshot of the payment & send it to

nishikant.dhapekar@kalingauniversity.ac.in

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

SCAN TO PAY



REGISTER HERE



CONTACT DETAILS

+91 7024133413 | nishikant.dhapekar@kalingauniversity.ac.in

# Program Schedule

## Module-I Material Testing Equipments & Technology

S.No.	Topics	Duration
1.	Study of Total Station	15 Days
2.	Levelling using Total Station	
3.	Horizontal and Vertical angles using Total Station	
4.	Bitumen Testing-Ductility-Flash and Fire Point	
5.	Material testing of aggregates	
6.	Determination of Fluoride in water	
7.	To determine the Salinity of water samples	
8.	Mix design of concrete	
9.	Tests on Low Heat and Ordinary Port land cement	
10.	Various tests of concrete	
11.	Introduction to Geotechnical Field Investigation methods	
12.	Direct shear test and sedimentation analysis test	
13.	CBR test of soil	
14.	Test to determine various limits of soil	
15.	Material Testing reports	

## Module-II Overview of Various Audits

S.No.	Topics	Duration
1.	Green campus audit, target areas and audit procedures	5 Days
2.	Environment audit, target areas and audit procedures	
3.	Energy auditing procedures	
4.	Soil, water and waste management audit	
5.	ISO, EMS, EnMS Procedures and Implementation	

## Module-III Advanced Softwares

S.No.	Topics	Duration
1.	Concepts of FEM & Introduction to ANSYS	15 Days
2.	Static structural analysis in ANSYS	
3.	Introduction to RCF, BRAW, RAFT, Road Estimate, QA & QC	
4.	Prediction of ITZ of RAC & Traffic data analysis using neural Network	
5.	Evaluation of compressive strength of Nano Silica based concrete using AI	
6.	Solid works - Basics and user interface	
7.	Introduction to sketching	
8.	Basic part modelling	
9.	Symmetry and draft	
10.	Assembly	
11.	MATLAB - Introduction	
12.	Basic operations	
13.	Basic circuits	
14.	Verification of various theorems	
15.	Research techniques	

## Module-IV Central Instrumentation Facility

S.No.	Topics	Duration
1.	X-ray Diffractometer (XRD)	10 Days
2.	X-ray Diffractometer (XRD)	
3.	Scanning Electron Microscope (SEM)	
4.	Scanning Electron Microscope (SEM)	
5.	Digital Viscometer and Water Analysis	
6.	Digital Viscometer and Water Analysis	
7.	High-performance Liquid Chromatography (HPLC)	
8.	High-performance Liquid Chromatography (HPLC)	
9.	Spectrophotometer	
10.	Site Visit	



Kotni, Near Mantralaya, Naya Raipur,  
Chhattisgarh - 492101, India



[www.kalingauniversity.ac.in](http://www.kalingauniversity.ac.in)

