



**KALINGA
UNIVERSITY**



Ranked in
Top 101-150
Universities



```
..._mod = modifier_ob.  
... mirror object to mirror  
mirror_mod.mirror_object  
... operation == "MIRROR_X":  
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
... operation == "MIRROR_Y":  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
... operation == "MIRROR_Z":  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True  
  
... selection at the end -add  
mirror_ob.select= 1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.  
mirror_ob.select = 0  
= bpy.context.selected_object  
data.objects[one.name].select  
print("please select exactly  
  
... OPERATOR CLASSES ----  
  
... types.Operator):  
... X mirror to the selected  
object.mirror_mirror_x"  
... r X"  
  
... ect is not
```

— INTERNSHIP PROGRAM IN —

PYTHON & R PROGRAMMING

Faculty of Information Technology and
Department of Computer Science

Date: 23rd May to 6th July 2023

INDEX

- About Kalinga University
- About Internship Program
- Advantages
- Who Should Attend
- Program Details
- Steps for Registration
- Program Schedule
- Contact Us

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

- Python and R are very popular programming languages today.
- They are widely used in various business sectors, such as programming, web development, machine learning, and data science.
- This Internship Program has been designed for beginners to help them understand the basic to advanced concepts of Python and R Programming Language.
- After completing this tutorial, you will find yourself at a great level of expertise in Python and R programming, from where you can take yourself to the next levels to become a world-class Software Engineer or Data Scientist.



Advantages

- Python language provides several job opportunities and promises high growth with huge salary prospects.
- Python's large open-source community means Pythonists can enjoy strong peer support and help documentation.
- Python's simple syntax, combined with its large set of libraries, helps us do more with fewer lines of code. This saves a lot of development time and is one of the reasons for Python's popularity.

Who Should **Attend**

Beneficial for - Students of UG/PG Programs & Research Scholars of Information Technology and Computer Science, etc.

“ Resource Persons ”

Mr. Omprakash Dewangan

HoD incharge,
Dept. of Computer Science &
Faculty of Information Technology

Ms. Taruna Chopra

Assistant Professor,
Faculty of Information Technology

Program Details

Duration : 45 Days

Date: 23rd May to 6th July 2023

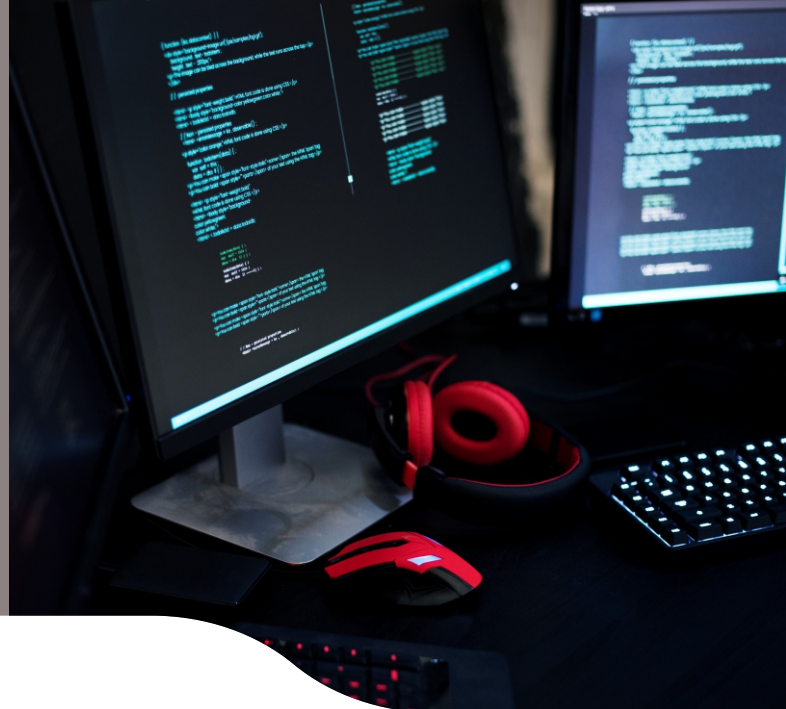
Monday to Saturday

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

omprakash.dewangan@kalingauniversity.ac.in

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

SCAN TO PAY



REGISTER HERE



CONTACT DETAILS

+91-7024133429 | omprakash.dewangan@kalingauniversity.ac.in



Program Schedule

Module-I Python Basics

S.No.	Topics	Duration
1.	What is Python? Basic Syntax	5 days
2.	Variable Types	
3.	Basic Operators	
4.	Decision Making	
5.	Loops	

> Programming

```
// persisted properties
```

```
<html><p style="font-weight:bold;">HTML font code is done using CSS.</p>
<html><body style="background-color:yellowgreen;color:white;">
<html><.todolistid = data.todoidb;
```

```
// Non - persisted properties
```

```
<html> <errorMessage = ko , observable();
```

```
<p style="color:orange;">HTML font code is done using CSS.</p>
```

```
function todoitem(data) { ;
var self = this ;
```

```
// Non - persisted properties
```

```
<html> <errorMessage = ko , observable();
```

```
<p style="color:orange;">HTML font code is done using CSS.</p>
```

```
function todoitem(data) { ;
```

```
var self = this ;
```

```
data = dta || {} ;
```

```
<p>You can make <span style="font-style:italic">some</span> the HTML 'span' tag.
```

```
<p>You can bold <span style="">parts</span> of your text using the HTML tag.</p>
```

```
</span> the HTML 'span' tag.
```

```
using the HTML tag.</p>
```

Module-II Python Datatypes

S.No.	Topics	Duration
1.	Numbers	5 days
2.	Strings	
3.	Lists	
4.	Tuples	
5.	Dictionary	

Module-III Python Functions

S.No.	Topics	Duration
1.	Date & Time	5 days
2.	Functions	
3.	Modules	
4.	Files I/O	
5.	Exceptions	



Module-IV NumPy

S.No.	Topics	Duration
1.	Introduction	5 days
2.	Arrays	
3.	Array slicing	
4.	Array reshaping	
5.	Array iteration	

Module-V Pandas

S.No.	Topics	Duration
1.	Series	5 days
2.	Data Frames	
3.	Read CSV	
4.	Read JSON	
5.	Analyzing Data	



Module-VI R Programming

S.No.	Topics	Duration
1.	Fundamentals of R	5 days
2.	File operations in R	
3.	Importing data	
4.	Data types	
5.	Built-in functions in R like: seq(), cbind(), rbind(), merge()	

Module-VII Data Structure in R

S.No.	Topics	Duration
1.	Vectors	5 days
2.	Lists, Scalars	
3.	Data Frames	
4.	Matrices, Arrays	
5.	Factors	

Module-VIII Data Visualization

S.No.	Topics	Duration
1.	Using graphical functions in R	10 days
2.	Popular Data Visualization tools	
3.	Line Plots, Bar Plots	
4.	Pie chart	
5.	Tableplot	
6.	Histogram	
7.	Plotting and colouring in R	
8.	grep(), sub(), summarize()	
9.	Data Cleaning	
10.	Case study on related topics	



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



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