

# In-house internship program on

"Python Programming and its  
application in Mechanical  
Engineering"

**July 10 - July 21**

**Organized by**

**Department of Mechanical Engineering**



**SAMRAT ASHOK TECHNOLOGICAL INSTITUTE,  
VIDISHA ( MP)-464001**

## About Institute

Samrat Ashok Technological Institute, a premier institute of the region was established by Late Maharaja Jiwaji Rao Scindia on November 1, 1960 with a donation from Gangajali Trust fund. The Institute started with B.E. in Civil Engineering, Mechanical Engineering and Electrical Engineering. Now the Institute offers 10 full time Under Graduate leading to degree in Bachelor of Engineering and 10 full time Post Graduate Courses in the areas of Engineering, Science and Management. It is an autonomous institute, which is Grant in Aid by Government of Madhya Pradesh and managed by the Maharaja Jiwaji Rao Education Society chaired by Hon'ble Shrimant Jyotiraditya M. Scindia.

## About Department

The Department of Mechanical Engineering is one of the oldest and well-developed department of the Institute. It has been established in 1960. It offers One UG Programme in Mechanical Engineering and one PG programme in Advanced Production System.



## **Chairman**

**Dr. R. K. Pandit (Director)**

## **Convenor**

**Dr. Sanjay Katare (HOD, MED)**

## **Course Coordinator(s):**

**Dr. C.P. Singh**

**Dr. N.S. Raghuvanshi**

**Address to correspondence:**

**Mr. Pradyumn Raghuvanshi**

**Miss Ruchi Patel**

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## **Objective of Program**

To guide and inspire students in their journey of learning Python programming, fostering a strong foundation in coding principles and problem-solving skills. Through this internship program, a supportive and engaging environment will be created where students can explore the world of Python.

The program will facilitate the students to understand the basic concepts of Python Programming and its utilization in various subject in Mechanical Engineering like Fluid Mechanics, Machine design, HMT and IC engine etc.

## **Content of Program**

Following topics will be covered during the training program:

1. Introduction to Python Programming and Python Installation.
2. Basics of Python: identifiers, Keywords, Variables, Operators.
3. Decision statement: If-Else statements.
4. Lists, Tuples, Dictionary.
5. Loops: While loop and related programs.
6. Loops: For loop and related programs.
7. Practice on loop problems.
8. Application of Python programming in Mechanical Engineering.