



Accredited with 'A+' grade by NAAC

Announces

One Week National Workshop
On
Python Programming and its Applications
February 2nd -7th, 2026
(HYBRID MODE)



Organized by:

**DEPARTMENT OF COMPUTER SCIENCE &
APPLICATIONS**

**In Association with Director Research &
Development (DoRD) & Internal Quality
Assurance Cell (IQAC)**

Dr. Harisingh Gour Vishwavidyalaya
(A Central University)

Sagar: 470003(M.P.), India

ABOUT VISHWAVIDALAYA



Dr. HariSingh Gour Vishwavidyalaya, a Central University in Sagar, was established on July 18, 1946, by Dr. Sir HariSingh Gour using his personal lifetime savings. Originally founded as the University of Saugor, the institution, which spans a campus of about 1300 acres, was elevated to a Central University on January 15, 2009. It is recognized for its academic quality, having been awarded an A+ Grade by NAAC in 2015. The university offers multidisciplinary academic programs at the undergraduate, postgraduate, and doctoral levels across 11 Schools, emphasizing an innovative approach to teaching and high-quality research, which is supported by well-equipped, modern laboratories and project funds from national agencies such as UGC, DST, ICMR, and others.

ABOUT DEPARTMENT

The Department of Computer Science and Applications was established in the academic year 1996-97 with the introduction of the Diploma in Computer Applications (DCA) and Bachelor in Computer Applications (BCA) programs. The Master of Computer Application (MCA) course was subsequently introduced in 1998. Currently, the department offers four distinct programs: BCA, MCA, M.Sc. (AI & Big Data Analytics), and Ph.D. in Computer Science.

HOW TO REACH SAGAR

Sagar is well-connected by rail (SGO station), with direct trains to Delhi, Mumbai, and Kolkata. It has excellent road connectivity to Bhopal (190 km), Jabalpur (185 km), Jhansi (200 km), and Bina (75 km). The nearest airports are in Bhopal and Jabalpur.

ABOUT THE WORKSHOP



The One Week National Workshop on Python Programming and its Applications is designed to provide participants with a comprehensive foundation in Python and its practical use in real-world scenarios. The course covers essential programming concepts such as data types, control statements, functions, file handling, and object-oriented programming, along with hands-on exposure to popular libraries used in data analysis, automation, and application development.

COURSE CONTENTS

Python Introduction and Setting up the Environment: Introduction to Programming, Choosing Python, Setting up Python environment, Python IDEs. Python Basic Syntax and Data Types, Input/output, Comments, Variables, Data types, Typecasting, Operators in Python Arithmetic, Assignment, Comparison, Logical, Identity, Membership, Bitwise operators. Strings in Python Creating, Formatting, Indexing, Slicing, String methods, Lists in Python: Sets in Python, Methods, Dictionaries in Python, Python Conditional Statements

List and Dictionary Comprehensions, Functions in Python, Creating, Calling, Arguments, Variables, Recursion. Anonymous Functions, Lambda functions, Generators in Python Creating, Using generators, Modules in Python, Creating, Importing, Built-in modules, Packages & Data Analysis, Creating packages, NumPy, Pandas, Matplotlib, Exceptions & Error Handling

Data Science and Analytics with Python Data Analysis, NumPy, Pandas, Visualization, APIs in Python, Public APIs, Accessing data, Python for Web Development

Machine Learning with Python Data Processing · Feature Engineering: Scaling, Normalization, and Standardization, Artificial Intelligence with Python Deep Learning Fundamentals Natural Language Processing, Data Visualization with Matplotlib and Seaborn, Big Data Processing with Python

Advanced Topics in Python: Functional programming techniques Design patterns, Metaprogramming and reflection, Concurrency and parallelism, Data serialization and persistence

WHO SHOULD ATTEND

The faculty members of the UGC approved institutions, research scholars, PG Scholars, participants from Government, Industry (Technicians/Participants from Industry etc.) and staff of host institutions

RESOURCE PERSONS

The course content will be delivered from a pool of experts from JNU, IGNTU, NIT, DU, Internal Faculties, Experts and other institutions of repute.

SELECTION PROCESS

The workshop will be conducted in a hybrid mode, enabling participation either online or offline. Participants may choose the mode according to their convenience. Further details and instructions will be communicated via email.

FEES	
UG/PG	110/-
Scholar/Faculty	510/-

GENERAL INFORMATION

Accommodation and travelling expenses are to be borne by the participants/ sponsoring agency. Limited accommodation on actual charges may be available at DHSGVV Guest House. A request for this need is to be made in advance. The participant will not be paid any TA/DA. The organizers will provide working lunch.

REGISTRATION

<https://forms.gle/wkkb8yy1NEqAuTEg6>

Registration is the open for faculty members of the UGC/AICTE approved institutions, research scholars, PG Scholars, UG, participants from Government, and staff of host institutions

QR FOR REGISTRATION



CONTACT DETAILS

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CHIEF PATRON

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Hon'ble Vice Chancellor,
Dr. HariSingh Gour Vishwavidyalaya(DHSGV),
(A Central University),Sagar (M.P.)

PATRON

Prof. R.K. Gangele
Dean, School of Mathematical and Physical Sciences
Dr. HariSingh Gour Vishwavidyalaya

CO-PATRON

Dr. Abhishek Bansal
Head, Department of Computer Science and Applications
Dr. HariSingh Gour Vishwavidyalaya

CONVENOR

Dr. Kavita Sahu, Assistant Professor
DCSA, DHSGV,Sagar

Organising Secretary

Dr. Pangambam Sendash Singh, Assistant Professor
DCSA, DHSGV,Sagar

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