ASSOCIATION OF ALL COMPUTER SCIENCE TEACHERS (AACST)

Report of National Workshop on

PYWORLD: EXPLORE THE POWER OF PYTHON

From 23 Sept 2025 To 30 Sept 2025 TIME: 6:30 TO 8:00 PM

Resource Persons:

MENTOR
Dr. Abha Khandelwal
Founder AACST, Retd Head Department of Computer Science, Hislop College, Nagpur, M.S.

Prof. Ganesh Dixit
School of Computer Science & Engineering, Sanskaram University, Jhajjar, Haryana.

Dr. Pratibha Rashmi
Department of Computer Science, Institute of Engineering & Technology, Agra, U.P.

Dr. Gunjan Singh
Faculty of Computer Applications, R. B. S. Management Technical Campus, Agra, U.P.

COORDINATOR
Prof. Manu P. Singh
Director, Institute of Engineering & Technology, DBRAU, Agra, U.P.

PRESIDENT
Dr S. B. Kishor
President, Association of All Computer Science Teachers (AACST)

CONVENOR
Ms. Ritika Raghav
Dept. Physics & Computer Science, Dayalbagh Educational Institute, Agra

HIGHLIGHTS OF THE WORKSHOP

Participation: 63 students participated from multiple
states across India.

Objective: To equip participants with basic to advanced Python skills for data analysis, visualization, automation, and small projects.

Structure: Sessions progressed from fundamentals to hands-on mini projects, ensuring practical learning and application.

WORKSHOP STRUCTURE

Duration: 8-day progressive Python learning program.

- Days 1–2: Python basics, syntax, I/O, and operators.
- Day 3: Decision-making and loops.
- Day 4: Functions and variable scope.
- Day 5: Core data structures.
- Day 6: NumPy & Matplotlib for data handling and visualization.
- Day 7: Pandas and CSV-based data analysis.
- Day 8: Strings and mini projects integrating all concepts.

GOOGLE CLASSROOM INTEGRATION

Learning Support: A dedicated Google Classroom was used as a central learning hub.

- Resources: Session-wise study materials and demonstrated Python code files.
- Practice: Daily assessments for hands-on reinforcement.
- Evaluation: A final test to assess overall understanding.

CONTRIBUTION OF RESOURCE PERSONS

- **Dr. Gunjan Singh:** Covered Python fundamentals and core data structures.

- **Prof. Ganesh K. Dixit:** Conducted session on operators and expressions.

- **Dr. Abha Khandelwal:** Delivered in-depth training on conditional statements, loops, functions, and string manipulation, and provided end-to-end project mentorship. She demonstrated well-structured mini-projects to illustrate how these concepts can be applied, helping participants strengthen their logical reasoning and gain confidence in coding.

- **Dr. Pratibha Rashmi:** Introduced Python for data handling, Pandas, and data visualization.

Overall Contribution: Their interactive, hands-on sessions and real-world examples helped participants confidently apply Python to practical problems.

ROLE OF CHAIRPERSONS

Each session was chaired by eminent academics who ensured the smooth conduct, active interaction, and motivation of participants.

CHAIRPERSONS: Dr. Shital Bora, Dr. Umadevi Ramamoorthy, Mr. Amolv Vilasrao Suryawanshi, Dr. Rupali Vairagade, Dr. G. Mahesh Kumar, Dr. Pravin Ghosekar, Dr. Sonali Shankar Gaikwad, Ms. Meghali Kalyankar, Dr. Kishor Dhole.

Impact: Their guidance and insights enhanced engagement and interactivity throughout the sessions.

CONCLUSION: The workshop was a successful and impactful learning initiative, made possible through the dedicated guidance of mentor Dr. Abha Khandelwal and the collective efforts of convener and resource persons. It provided participants with a strong practical foundation in Python, motivating them to confidently apply their skills to real-world problems and future learning. The Valedictory Function was graced by the presence of Chief Guest Dr. Amina Vali, Principal, Sadabai Raisoni Women's College, Nagpur, whose encouraging words added inspiration and value to the occasion.
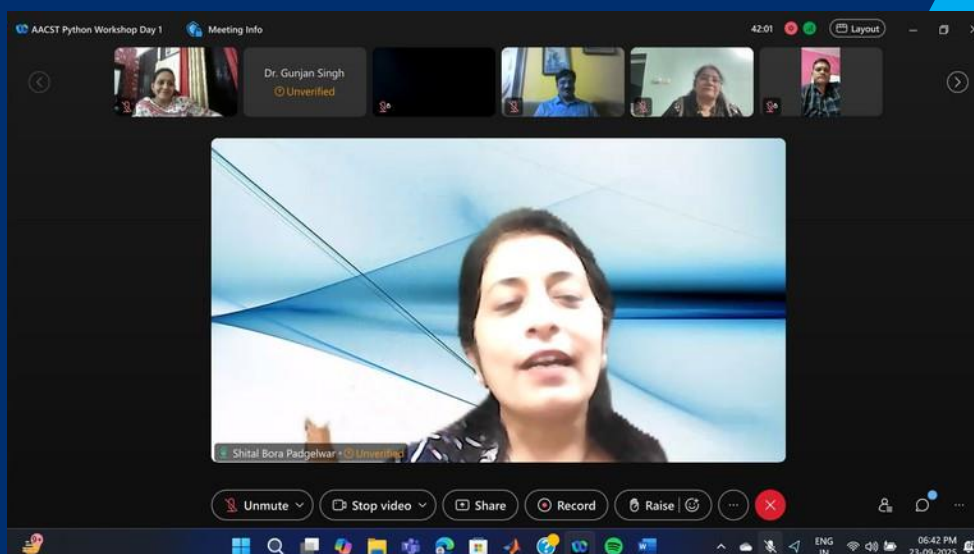
GLIMPSE

Day 01: Dr. Abha Khandelwal adressing the participants.

Dr. S. B. Kishor as Chiefguest for the inaugration ceremony.
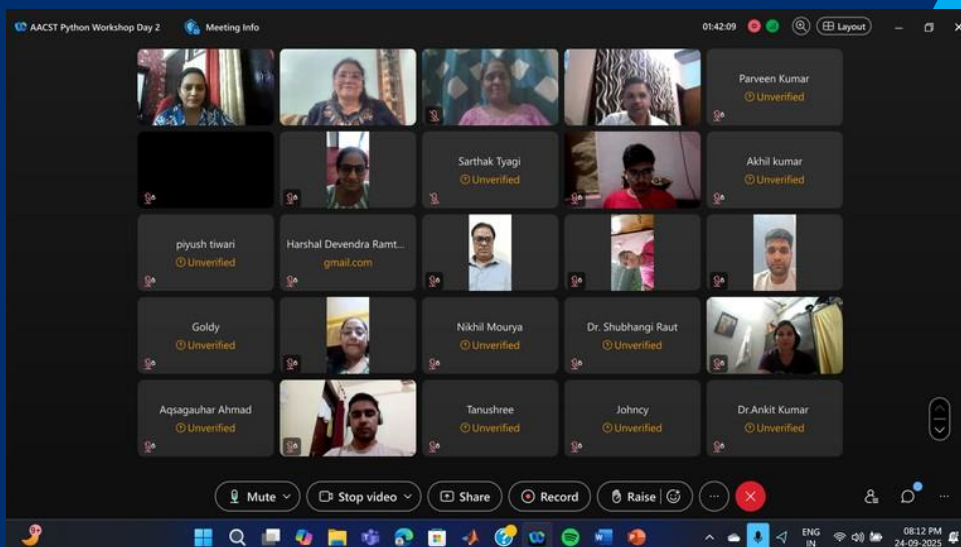

Dr. Shital Bora as chairperson on 23rd Sept.

Prof. Ganesh K. Dixit taking session on 24ᵗʰ Sept.

Dr. Umadevi Ramamoorthy as chairperson on 24th Sept.

Participants attending the workshop.

Mr. Amolv Vilasrao Suryawanshi as chairperson on 25th Sept.

Dr. G. Mahesh Kumar as Chairperson on 27th Sept.

Dr. Pravin Ghosekar as Chairperson on 28th Sept.

Dr. Kishor Dhole as chairperson on 29th Sept.

Dr. Abha Khadelwal as Resource person on 30th Sept.

Chief Guest-Valedictory Function Dr Amina Vali- Principal Women's College, Nagpur, 30th Sept 2025.