



Faculty of Engineering

ACTIVITY COMPLETION REPORT

Institute: Faculty of Engineering, Major S.D. Singh University, Farrukhabad

Activity: Python Programming Workshop

Date: 18/08/2026

Duration: 01 Day

Venue: Faculty of Engineering, Major S.D. Singh University, Farrukhabad

Organized by: Engineering Department

Coordinator: Mr. Deependra Singh / Engineering Department

Objectives

- To introduce students to the fundamentals of Python programming and its applications in engineering.
- To develop basic programming and computational skills among students.
- To familiarize students with Python syntax, variables, data types, operators, and control statements.
- To enhance students' logical thinking, problem-solving, and programming abilities.
- To provide practical exposure to writing, executing, and debugging Python programs.
- To encourage students to use Python for academic, technical, and engineering-related applications.

Description of the Activity

- A **Python Programming Workshop** was organized on **18.08.2026** by the Engineering Department, Faculty of Engineering, Major S.D. Singh University, Farrukhabad. The workshop aimed to introduce students to the fundamentals of Python programming and develop their practical programming and problem-solving skills.
- During the workshop, students were introduced to the basic concepts of Python programming, including Python syntax, variables, data types, operators, conditional statements, loops, functions, and basic input-output operations. The sessions focused on developing a clear understanding of programming concepts through practical examples and demonstrations.
- The workshop was conducted under the guidance of **Mr. Deependra Singh** and the Engineering Department. Students actively participated in the practical sessions and practiced writing and executing Python programs. Various programming problems and examples were discussed to help students understand the application of Python concepts in solving computational and engineering-related problems.
- The workshop provided students with hands-on exposure to programming and encouraged them to apply their knowledge to practical problems. The interactive and practical approach helped students strengthen their programming fundamentals, logical reasoning, and analytical abilities.
- The activity also highlighted the importance of Python as a versatile programming language used in various engineering and technological fields, including data analysis, automation, artificial intelligence, machine learning, and software development. Students were encouraged to continue practicing Python and explore its applications in their academic projects and future professional careers.

Outcome of the Activity

- Students gained basic knowledge of Python programming and its applications.
- Improved understanding of Python syntax, variables, data types, operators, control statements, and functions.
- Students developed practical skills in writing, executing, and debugging Python programs.

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- Enhanced logical thinking, analytical abilities, and problem-solving skills through programming exercises.
- Students gained confidence in applying Python concepts to academic and engineering-related problems.
- The workshop encouraged students to explore programming and computational tools for their academic projects and future careers.
- Students developed awareness of the practical applications of Python in various engineering and technological domains.

Highlights

- **Python Programming Workshop** was successfully organized by the Engineering Department.
- **Mr. Deependra Singh** guided students on fundamental and practical aspects of Python programming.
- Hands-on programming exercises provided students with practical exposure to Python.
- Students actively participated in demonstrations, discussions, and programming activities.
- Practical examples helped students understand the application of Python in solving technical and engineering problems.
- The workshop strengthened students' programming skills, logical thinking, and problem-solving abilities.
- The activity encouraged students to develop an interest in modern programming and computational technologies.

Conclusion

- The **Python Programming Workshop** was successfully conducted on **18/08/2026** for a duration of **01 Day**. The workshop provided students with valuable theoretical and practical knowledge of Python programming. Through demonstrations, practical exercises, and interactive discussions, students developed a better understanding of programming concepts and their applications in engineering.
- The activity contributed to enhancing students' technical skills, logical thinking, and problem-solving abilities and motivated them to further explore Python programming for academic, project-based, and professional applications.

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