

Advance Python Programming

Name of the Program	Duration	Documents (Topic Covered in report	Page No.
		is Curriculum)	
		List of the students enrolled(with signature	1
Advance Python Programming	32 Hours	of students)	
		Model certificates	2-4
		Reports showing assessment procedures	5-7
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(Approved by AICTE & Affiliated to Maharaja Ranjit Singh Punjab Technical University, Bathinda)

CERTIFICATE OF COMPLETION

This is to certify that Ms./Mr. **Prtibha** UID **1972002** Program **B. Tech Computer Science & Engineering, Semester 6th** has successfully completed certificate course on "Advance Python **Programming**" which was organized by Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (EVEN Semester).

Er. Sukhwinder Singh Course Coordinator Department of CSE



Dr. Nimisha Singh Head Department of CSE

Sr. No. CSE/2021-22/EVEN/CC/APP/002



(Approved by AICTE & Affiliated to Maharaja Ranjit Singh Punjab Technical University, Bathinda)

CERTIFICATE OF COMPLETION

This is to certify that Ms./Mr. Arshpreet Singh UID 1972007 Program B. Tech Computer Science & Engineering, Semester 6th has successfully completed certificate course on "Advance Python Programming" which was organized by Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (EVEN Semester).

Er. Sukhwinder Singh Course Coordinator Department of CSE



Dr. Nimisha Singh Head Department of CSE

Sr. No. CSE/2021-22/EVEN/CC/APP/003



(Approved by AICTE & Affiliated to Maharaja Ranjit Singh Punjab Technical University, Bathinda)

CERTIFICATE OF COMPLETION

This is to certify that Ms./Mr. VIKRAM KUMAR UID 1972010 Program B. Tech Computer Science & Engineering, Semester 6th has successfully completed certificate course on "Advance Python Programming" which was organized by Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (EVEN Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (EVEN

Er. Sukhwinder Singh Course Coordinator Department of CSE



Dr. Nimisha Singh Head Department of CSE



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

Report On

Advance Python Programming

Eligible Student: B.Tech 6th Semester Date: 17-03-2022 to 02-06-2022 Duration of Course: 32 Hours Course Code- CC_APP No. of Students Enrolled in the course: 35 Timing: 01:50 pm to 03:20 pm Days: Thursday & Friday Course Coordinator: Er. Sukhwinder Singh, Assistant Professor (CSE)

The "Python Programming" course was conducted for the 6th semester students pursuing B.Tech. in Computer Science & Engineering. The course duration was 32 hours, where 35 enrolled students successfully completed the course. Python, a widely used general-purpose programminglanguage known for its readability and efficiency, was the primary focus of the course. Students were introduced to the fundamentals of Python and its applications in various fields.

Topic Covered:

Module 1: Python environment setup and basic plot manipulation.

Module 2: Working with lists, arrays, and image manipulation using arrays.

Module 3: Matrix operations, loops, tuples, dictionaries, and basic datatypes.

Module 4: Functions, Python modules, scripting, testing, debugging, and error handling.

Module 5: Introduction to Python Django, models, views, URLs, HTML templates, database queries, forms, and web authentication.

Assessment Procedure:

The students were evaluated throughout the course based on four parameters: Technical Knowledge, Hands-on Practice, Skill Test, and Attendance. Each parameter carried a certain weightage in the overall evaluation.

1. Technical Knowledge in Concerned Field (20 marks):

This parameter measured their theoretical knowledge, conceptual understanding, and ability to apply that knowledge to practical scenarios.



2. Hands-on Practice (10 marks):

Hands-on practice evaluated the student's ability to apply their knowledge in practical situations. It measured their proficiency in utilizing tools, techniques, or software relevant to the course.

3. Skill Test (10 marks):

The skill test assessed the student's competency and proficiency in specific skills related to the course. It focused on practical skills that were essential for the field of study.

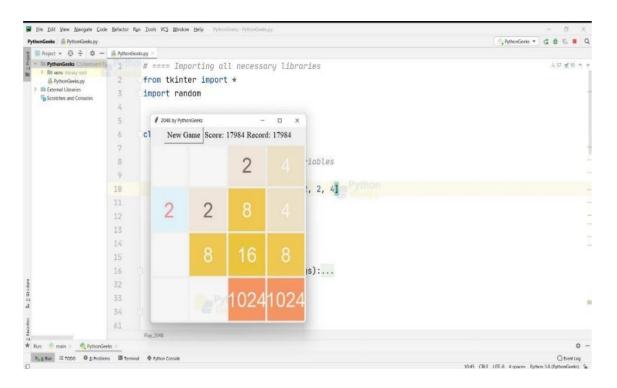
4. Attendance (10 marks):

Attendance refers to the student's regular presence in the course. It emphasizes the importance of active participation and consistent engagement throughout the duration of the program.

Outcomes:

- 1. Students gained the necessary knowledge and skills to work effectively with Python programming language across various domains.
- Students acquired the ability to perform numeric and symbolic computations using Python. They learned techniques for handling complex mathematical operations and calculations.
- 3. Students learned how to create and manipulate graphs using Python. They gained proficiency in plotting 2D and 3D graphs, enabling them to visually represent data and analyze trends.
- 4. The course equipped students with the fundamentals of web development using Python. They learned concepts and techniques for developing web applications, utilizing frameworks such as Django.
- 5. Through practical exercises and projects, students gained hands-on experience working with various Python modules. They became proficient in selecting and utilizing the right modules to enhance their engineering activities.





Screenshot of Python 2048 Game