



BABA FARID COLLEGE OF ENGG. & TECHNOLOGY

Fundamental of Python

Name of the Program	Duration	Documents (Topic Covered in report is Curriculum)	Page No.
Fundamental of Python	32 Hours	List of the students enrolled(with signature of students)	1
		Model certificates	2-4
		Reports showing assessment procedures and Curriculum	5-7

***Topic Covered in report is Curriculum**

Baba Farid College of Engineering & Technology (Attendance Register)

Teacher Name: Er. Satvir Singh
 Subject: Fundamental of Python (CCFP-02) (lab)
 Program: B.TECH - EE, Sem 6th
 Session: 2021-22 (even)

Sr No.	UID	STUDENT NAME	16-Mar-22	18-Mar-22	23-Mar-22	25-Mar-22	30-Mar-22	01-Apr-22	06-Apr-22	08-Apr-22	13-Apr-22	15-Apr-22	22-Apr-22	27-Apr-22	29-Apr-22	04-May-22	06-May-22	18-May-22	20-May-22	24-May-22	27-May-22	Total Lecture	classes attended	Student Attendance
1	1976001	Gurpreet Singh	A	P	P	P	A	A	P	P	P	P	P	P	A	P	P	P	P	P	P	38	30	Gurpreet
2	1976004	Gaganjot Kaur	A	P	P	P	P	A	P	P	P	A	P	A	P	P	P	P	P	A	A	38	26	Gagan
3	1976005	Kirandeep Kaur	P	P	P	A	P	P	P	P	A	P	A	P	P	P	P	A	P	P	P	38	30	Kiran
4	1976006	Monika	P	A	A	P	P	P	A	A	P	A	P	P	P	P	P	P	P	P	P	38	28	Monika
5	1976007	Lovepreet Singh	P	A	A	A	P	P	A	A	A	P	A	P	P	P	P	P	P	P	P	38	24	Lovepreet
6	1976013	Amit Kumar Sah	A	P	P	P	A	A	P	P	P	A	P	P	A	P	P	P	P	P	P	38	28	Amit Kumar
7	1976014	Jameel Ahmad Sofi	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	38	34	Tameel
8	1976015	Amandeep Kaur	P	P	P	A	P	P	P	P	A	P	A	P	P	P	P	A	A	P	P	38	28	Amandeep
9	1976017	Vivek Arora	A	P	P	A	P	A	P	P	A	P	A	P	P	P	P	P	A	A	P	38	24	Vivek
10	1976018	Davand Ram	A	P	P	A	P	A	P	P	A	P	P	A	P	P	P	P	P	P	P	38	28	Davand Ram
11	1976019	Yashpal Singh	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	38	34	Yashpal
12	1976020	Arundeep	A	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	38	32	Arundeep
13	1976021	Gursimrandeep Singh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	38	36	Gursimran
14	1976022	AADIL AHMAD TANTRY	P	A	A	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	38	30	Arum
15	1976023	Sumit Sharma	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	38	34	Sumit
16	1976025	Kamwal Preet Kaur	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	38	36	Kamwal
17	1976026	Khushamayun Gurbanta Meitzi	P	A	A	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	38	30	Khushamayun
18	1976027	Sukhdeep Singh	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	38	36	Sukhdeep
19	1976028	Sandeep Kumar	P	A	A	A	P	P	A	A	A	P	A	A	P	P	P	P	P	P	P	38	22	Sandeep
20	1976029	Pawandeep Singh	P	A	A	P	P	P	A	A	A	A	A	A	A	A	A	A	A	A	P	38	10	Pawandeep
21	1976030	Muskan	A	A	A	A	A	A	A	A	A	P	A	A	A	P	A	A	A	A	P	38	6	Muskan

Course Coordinator

Satvir Singh

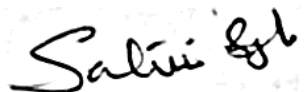
BABA FARID COLLEGE OF ENGINEERING AND TECHNOLOGY

Muktsar Road, Bathinda, Punjab (India)

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CERTIFICATE OF COMPLETION

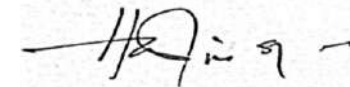
This is to certify that Ms./Mr. Gurpreet Singh UID 1976001 Program **B.Tech Electrical Engineering, Semester 6th** has successfully completed certificate course on “**Fundamental of Python**” which was organized by Department of Electrical Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (Even Semester).



Er. Satvir Singh
Course Coordinator
Department of EE

BABA FARID
GROUP OF INSTITUTIONS

Bathinda, Punjab(India)



Er. Harsimran Singh
Head
Department of EE


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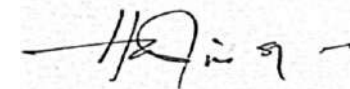
This is to certify that Ms./Mr. Gaganjot Kaur UID 1976004 Program **B.Tech Electrical Engineering, Semester 6th** has successfully completed certificate course on “**Fundamental of Python**” which was organized by Department of Electrical Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (Even Semester).



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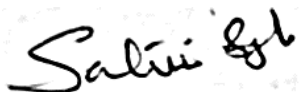
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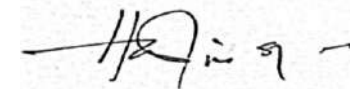
This is to certify that Ms./Mr. Kirandeep Kaur UID 1976005 Program **B.Tech Electrical Engineering, Semester 6th** has successfully completed certificate course on “**Fundamental of Python**” which was organized by Department of Electrical Engineering, Baba Farid College of Engineering and Technology, Bathinda during Session 2021-22 (Even Semester).



Er. Satvir Singh
Course Coordinator
Department of EE

BABA FARID
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Bathinda, Punjab(India)



Er. Harsimran Singh
Head
Department of EE



Report on Fundamental of Python

Eligible Students: B.Tech 6thSemester

Date: 16/03/2022 to 27/05/2022

Duration of Course: 32 Hours

Course Code: CCFP-02

No. of students Enrolled: 21

Timing: 1:50 to 3:20

Days: Wednesday & Friday

Course Coordinator: Er. Satvir Singh, Assistant Professor (EE)

The Fundamental of Python course conducted during the session 2021-22 for B.Tech. Students. It was a comprehensive program aimed for providing a strong foundation in Fundamentals of python. The course duration was 32 hours, where out of 21 enrolled students, 19 successfully completed the course.

Python is a highly popular programming language known for its extensive libraries, simplicity, and readability. It is widely used in today's technology-driven world. Python is a high-level general-purpose language designed to write code in fewer lines while maintaining clarity. It is an interpreted language, meaning there are no type declarations required in the source code, making it flexible but sacrificing compile-time type checking. Python tracks the types of values at runtime and identifies code that doesn't make sense. There are two major versions of Python: Python 2 and Python 3, which have significant differences. Python enables programmers to work quickly and effectively integrate systems.

Teaching Pedagogy:

The teaching pedagogy for the Fundamentals of Python course focuses on providing a comprehensive learning experience for students. The course begins with an introduction to Python, highlighting its significance and relevance in the programming world. Interactive lectures are conducted to explain core concepts, with visual aids and real-world examples used to engage students. Hands-on coding exercises are provided to allow students to apply



their knowledge, with varying difficulty levels to cater to different skill levels. Code reviews and feedback are given to reinforce good coding practices and improve skills. The importance of code documentation and best practices is emphasized, along with interactive code debugging to develop problem-solving skills.

Topics Covered:

The course covers various modules essential for learning Python programming.

Module 1: Introduces built-in and external modules, pip installation, and using Python as a calculator.

Module 2: Focuses on variables, keywords, and operators.

Module 3: covers strings, including slicing and string functions.

Module 4: Covers Lists, tuples, and their methods .

Module 5: Explores dictionaries, sets, and their operations.

Module 6: Covers different types of loops and statements.

By studying these modules, students will acquire a foundational understanding of Python programming, including variables, data types, strings, lists, tuples, dictionaries, sets, and loops.

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):

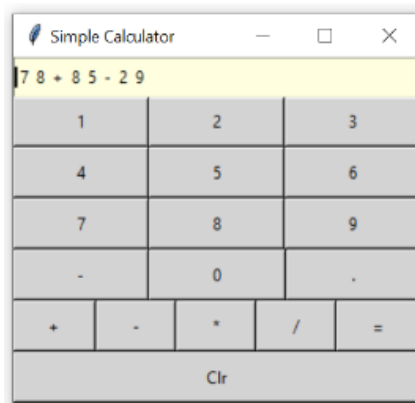
Attendance refers to the student's regular presence in the course. It emphasizes the

importance of active participation and consistent engagement throughout the duration of the program.

Outcomes:

Overall, the course equipped students with a solid foundation in Python programming and enabled them to create functional programs, apply their knowledge to practical scenarios, and enhance their problem-solving abilities, it can be summarized in the following points:

1. Students demonstrated proficiency in fundamental programming constructs, such as variables, conditionals, loops, and functions. They applied these skills to develop projects like a simple calculator, a text-based adventure game, or a number guessing game. This showcased their ability to implement core programming concepts effectively.
2. Students gained expertise in creating interactive programs by incorporating user input.
3. Through the course and projects, students developed strong problem-solving and logical thinking skills. They learned to break down complex problems into smaller, manageable tasks and used Python to devise solutions. This skill set is valuable not only in programming but also in various professional fields requiring analytical thinking and structured problem-solving.



Screenshots of Simple Calculator project