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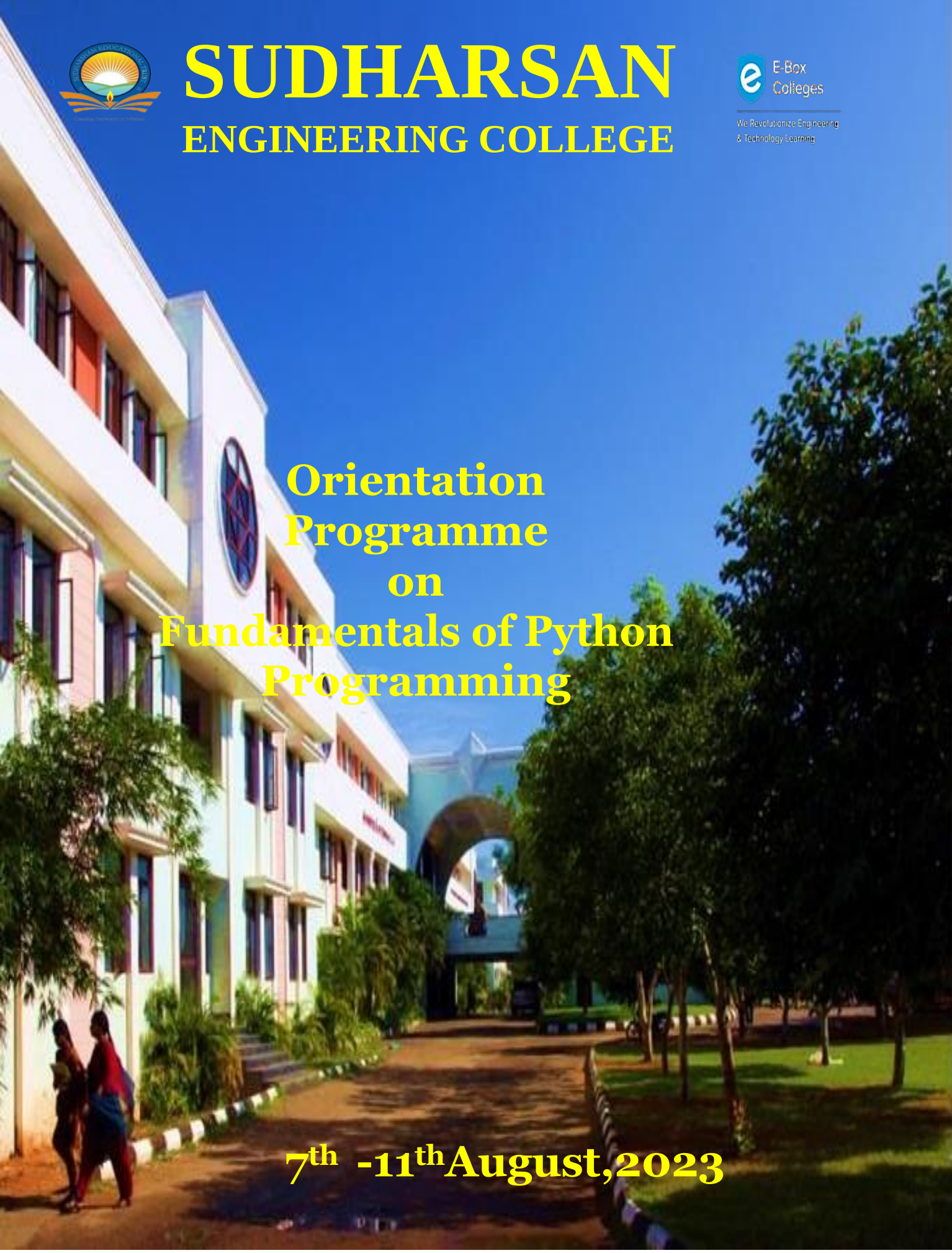

Orientation Programme on Fundamentals of Python Programming

7th -11th August,2023

SUDHARSAN ENGINEERING COLLEGE

Sathiyamangalam, Pudukkottai.

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Organised By

Department of CSE & AIDS

Date:7th-11TH AUGUST ’2023

Report Prepared By

1. Mrs.P.Parvathi ASP/CSE

2. Ms.P.Sivapriyanga AP/CSE

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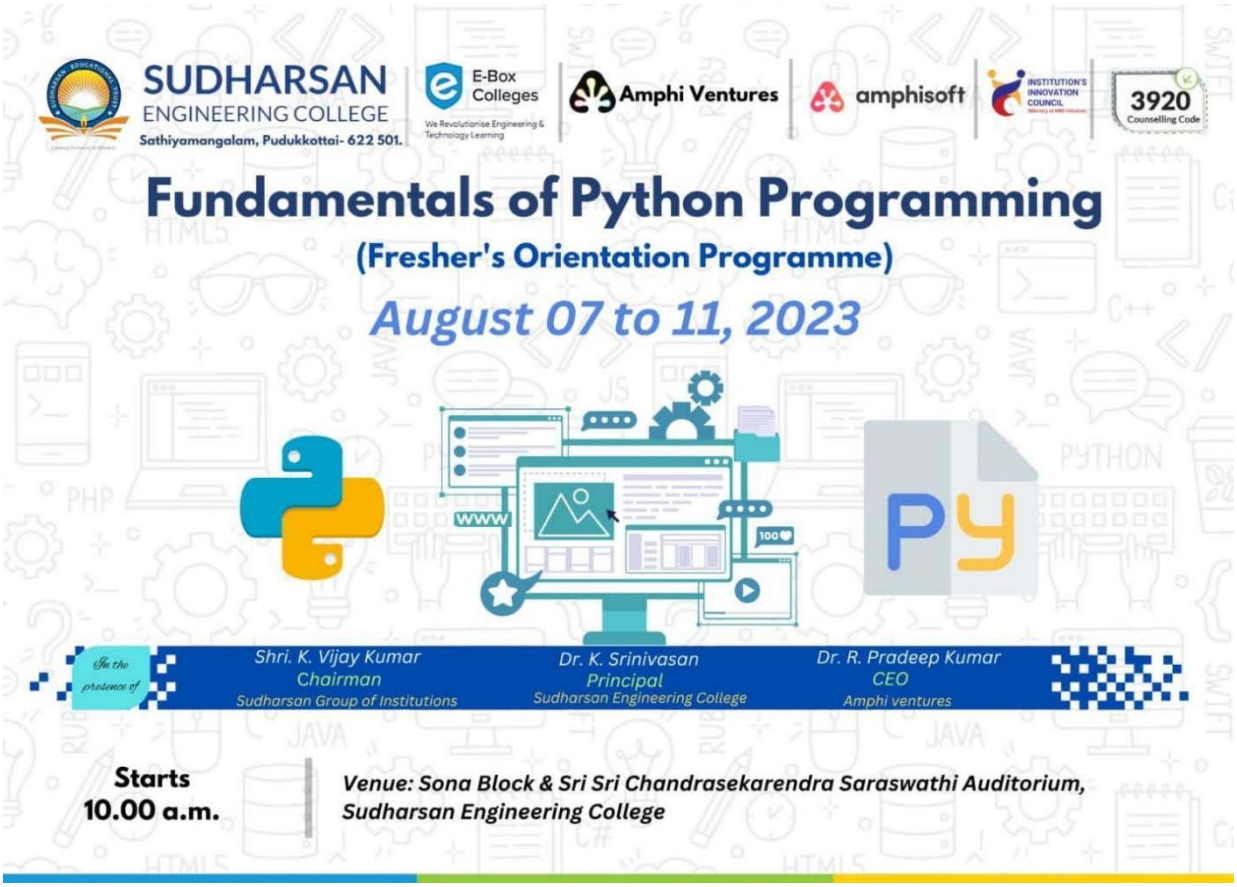

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3.	SEC-'C'	Mrs.P.Parvathi – ASP/CSE	1. Ms.Rexcy – Ap/English 2. Ms.Banu – Ap/Maths 3. Mrs.Porkodi – Ap/AI&DS
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WORKSHOP SCHEDULE

DATE	FORE NOON	AFTER NOON	Handled by
07.08.23	Basics of Python	Practical Session	Dr.P.Sujatha – HoD/CSE
08.08.23	Conditional Statements	Practical Session	Mr.S.John Joseph – HoD/AI&DS
09.08.23	Looping Statements	Practical Session	Ms.P.Siva Priyanga – AP/CSE
10.08.23	Functions	Practical Session	Mrs.M.A.Madhumathi – AP/EEE
11.08.23	Assessment Test		

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27	Ajithkumar	CIVIL
28	A.Manokaran	CIVIL
29	A.Purachikavi mahayuthan	MECH
30	A.Bharathi kavi	EEE
31	V.Harikaran	EEE
32	CT.Kishore	CSE

33	M.Unnamalai	CSE
34	I.Maickal Jonsan	MECH
35	A.Dineshkumar	AI&DS
36	T.Akilan	AI&DS
37	G.Chandrakishore	MECH
38	V.Rmaesh kumar	CE
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40	P.Amsavarthan	AI&DS
41	P.Manoj kumar	MECH
42	S.Ramharish	CE
43	R.Palaniyayee	CSE
44	S.Palanisamy	CE
46	A.Abdul Sulaiman	ECE

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Fundamentals of Python Programming

Report

Day 1: August 07, 2023

Presenter: Dr. P. Sujatha – HoD/CSE

Topic: Basics of Python

Introduction: The Basics of Python session conducted on 07.08.23 was aimed at providing participants with a fundamental understanding of the Python programming language. Dr. P. Sujatha, the Head of the Computer Science and Engineering (CSE) department, led the session.

Session Highlights: During the session, Dr. Sujatha covered the following key points:

Introduction to Python: The session began with an overview of Python's history, features, and its importance in the programming world. Participants were introduced to the simplicity and readability of Python code.

Basic Syntax: Dr. Sujatha explained the basic syntax of Python, including variables, data types, operators and how to assign values. Participants gained an understanding of dynamic typing and the ease of variable declaration.

Data Structures: The basics of Python data structures such as lists, tuples, and dictionaries were covered. Dr. Sujatha explained the characteristics and usage of each data structure.

Interactive Approach: Dr. Sujatha followed an interactive teaching style, encouraging participants to ask questions and engage in discussions. She used code examples and practical exercises to illustrate the concepts taught, ensuring that participants gained hands-on experience.

Participant Engagement: The participants actively engaged in the session, showing enthusiasm and interest in learning Python. They asked questions and participated in coding exercises, making the session more interactive and effective.

Key Takeaways:

- A solid understanding of Python's syntax and basic programming concepts.
- Knowledge of how to write simple programs in Python.
- Introduction to fundamental data structures in Python.

Conclusion: The Basics of Python session conducted by Dr. P. Sujatha on 07.08.23 proved to be a successful learning experience. Participants left with a foundational understanding of Python programming, setting the stage for their future exploration of more advanced Python topics.

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Day 2: August 08, 2023

Topic: Conditional Statements

Presenter: Mr. S. John Joseph – HoD/AI&DS

Introduction:

On 08.08.23, a session on Conditional Statements was conducted, focusing on providing participants with a comprehensive understanding of how to use conditional statements effectively in programming. The session was led by Mr. S. John Joseph, the Head of the Artificial Intelligence & Data Science (AI&DS) department.

Session Highlights:

During the session, Mr. John Joseph addressed the following key aspects of conditional statements:

Introduction to Conditional Statements: The session began with an overview of why conditional statements are essential in programming. Participants learned how conditional statements allow programs to make decisions based on specific conditions.

if Statements: Mr. John Joseph explained the structure of the 'if' statement and how it is used to execute a block of code only if a specified condition is true. Participants gained an understanding of the basic syntax and usage of 'if' statements.

if-else Statements: The concept of 'if-else' statements was introduced, demonstrating how to execute one block of code when a condition is true and another block when it's false. Participants were shown how this construct helps in handling different scenarios.

elif Statements: Mr. John Joseph covered 'elif' statements, which allow for multiple conditions to be checked in a sequential manner. This construct is useful when dealing with multiple possible outcomes.

Nested Conditional Statements: The session covered the idea of nested conditional statements, where one conditional statement is placed within another. This technique was illustrated with examples to show its application in complex decision-making scenarios.

Case Studies: Mr. John Joseph presented practical case studies to demonstrate real-world scenarios where conditional statements are crucial. These examples helped participants understand how to translate real-life problems into code.

Interactive Approach:

Mr. John Joseph employed an interactive teaching style, encouraging participants to actively engage in discussions and ask questions. He used code snippets and scenarios to illustrate the concepts taught, making the session both informative and engaging.

Participant Engagement:

Participants actively participated in the session, asking questions, suggesting solutions, and discussing various programming scenarios involving conditional statements. This active engagement contributed to a rich learning environment.

Key Takeaways:

- A solid understanding of conditional statements and their role in decision-making.
- Proficiency in writing 'if', 'if-else', and 'elif' statements.
- Knowledge of nested conditional statements and their application in complex scenarios.
- Practical experience in translating real-world problems into executable code.

Conclusion:

The Conditional Statements session conducted by Mr. S. John Joseph on 08.08.23 was highly informative and engaging. Participants gained valuable insights into how to effectively use conditional statements to control the flow of their programs based on various conditions. This foundational knowledge will undoubtedly serve as a stepping stone for their future programming endeavors.

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Day 3: August 09, 2023

Topic: Looping Statements

Presenter: Ms. P. Siva Priyanga – AP/CSE

Introduction:

The Looping Statements session held on 09.08.23 aimed to provide participants with a thorough understanding of looping constructs in programming. Ms. P. Siva Priyanga, an Assistant Professor in the Computer Science and Engineering (CSE) department, led the session.

Session Highlights:

During the session, Ms. Siva Priyanga covered the following key aspects related to looping statements:

Introduction to Looping: The session began with an overview of why looping is crucial in programming. Participants were introduced to the concept of executing a block of code repeatedly based on certain conditions.

for Loop: The structure and application of the 'for' loop were explained. Participants learned how to use the 'for' loop to iterate over a sequence of elements and execute a specific code block for each iteration.

While Loop: The 'while' loop was introduced, demonstrating how it continues executing a code block as long as a specified condition remains true. Participants gained insights into creating efficient and controlled loops using the 'while' construct.

Nested Loops: Ms. Siva Priyanga covered the concept of nested loops, where one loop is placed inside another. The session illustrated how nested loops can be used to traverse multi-dimensional arrays or solve complex problems requiring repeated iterations.

Loop Control Statements: The session included a discussion on loop control statements such as 'break' and 'continue'. Participants learned how to exit loops prematurely or skip specific iterations based on certain conditions.

Use Cases and Applications: Practical examples and use cases were presented to showcase the relevance of looping constructs in solving real-world problems. Participants were shown how looping statements are used in various scenarios.

Interactive Approach:

Ms. Siva Priyanga employed an interactive teaching approach, encouraging participants to actively participate by asking questions and sharing their understanding. Code examples and exercises were used to demonstrate the concepts being taught.

Participant Engagement:

Participants actively engaged in the session, showing interest in learning about looping constructs. They participated in discussions, asked clarifying questions, and attempted coding exercises, enhancing their understanding of the topic.

Key Takeaways:

- Comprehensive knowledge of looping statements and their significance in programming.
- Proficiency in using 'for' and 'while' loops to iterate over sequences and conditions.
- Understanding of nested loops and their application in handling complex scenarios.
- Familiarity with loop control statements for efficient loop management.

Conclusion:

The Looping Statements session conducted by Ms. P. Siva Priyanga on 09.08.23 provided participants with a solid foundation in looping constructs. Participants left the session with a clear understanding of how to use looping statements effectively to create iterative processes in their programs, which will undoubtedly contribute to their programming skills.

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Day 4:August 10, 2023

Topic: Functions in Python

Session Handler: Mrs. M.A. Madhumathi AP/EEE

Introduction:

On 10th August 2023, an instructive session on the topic of "Functions in Python" was conducted by Mrs. M.A. Madhumathi, a distinguished faculty member in the Department of Computer Science and Engineering (AP/CSE). The session aimed to provide students with a comprehensive understanding of Python functions and their significance in programming.

Session Highlights:

During the session, Mrs. Madhumathi covered several vital aspects related to functions in Python:

Introduction to Functions: The session commenced with a clear introduction to functions in Python. The concept of breaking down complex tasks into modular, reusable code blocks was elucidated. Mrs. Madhumathi emphasized the importance of functions in enhancing code readability and reusability.

Function Definition and Syntax: Students were presented with the syntax of defining functions in Python. They were taught how to create functions using the def keyword, specify function parameters, and return values using the return statement.

Function Parameters: Different types of function parameters, including positional and keyword arguments, were explained. Mrs. Madhumathi demonstrated how to define functions with various parameters and how to call these functions with appropriate arguments.

Return Values: The concept of return values was elucidated, highlighting how functions can produce outputs that can be utilized in other parts of a program. Examples showcasing functions with different return types were provided.

Scope and Lifetime of Variables: Students were introduced to the concepts of scope and lifetime of variables within functions. The distinction between local and global variables was explained, along with the importance of avoiding naming conflicts.

Lambda Functions: Mrs. Madhumathi introduced students to lambda functions, also known as anonymous functions. The simplicity and applicability of lambda functions in short, one-line operations were demonstrated.

Function Documentation: The session emphasized the significance of documenting functions using docstrings. Students were shown how to write clear and concise documentation for their functions to enhance code maintainability.

Interactive Learning:

The session was conducted interactively, encouraging students to actively participate by asking questions and engaging in discussions. Practical examples and coding exercises were integrated into the session to provide hands-on experience in creating and utilizing functions.

Conclusion:

The "Functions in Python" session led by Mrs. M.A. Madhumathi was both informative and engaging. It equipped students of the AP/CSE department with a solid foundation in understanding Python functions and their role in efficient programming. The interactive approach fostered effective learning, enabling students to grasp the concepts more thoroughly. The knowledge gained from this session will undoubtedly prove valuable in their academic pursuits and future careers as skilled computer scientists and engineers.

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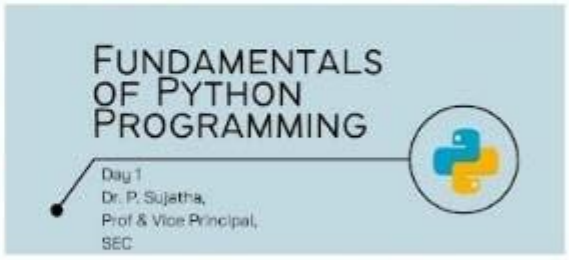

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DAY 2 – PHOTOS

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DAY 4 – PHOTOS

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DAY 5 – PHOTOS

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