



B. M. S. COLLEGE OF ENGINEERING BENGALURU-19
(Autonomous Institute under VTU, Approved by AICTE, Accredited by NAAC)

Department of Computer Science & Engineering
B.M.S. College of Engineering, Bengaluru

In association with BMSCE CSE Protocol and BMSCE IEEE Student Branch

Organizes

Two weeks Value Added Program

(Popularly known as Workshop/Internship)

on

“PYTHON PROGRAMMING”

in Blended mode

Date: 18th April to 29th April 2022

(30 hours Direct contact and self-study)

1. Objectives of the value-added course:

Upon completion of this workshop,

- Students will be able to develop programs using Python
- Students will be able to work-on self study activities and implement projects using Python
- Students will be benefitted during placement activities and other competitive exams

2. Prerequisites:

- Students need to be familiar with basic programming constructs

3. Schedule:

Sl.No	Date & Time	Topics to be covered	Faculty
1	18/04/2022 5pm to 8pm	Introduction to Python, Python concepts, comparing programming languages - C, C++, Java, C#, Python, the Python Interpreter, Python versions, Dynamic vs. Static Types, Interpreted vs. Compiled	Prof. Saritha A N

		Exercises	
2	19/04/2022 5pm to 8pm	Using the Python command prompt, comments in Python, launching Python programs, Integrated Development Environments, types and operators, Python syntax, indentation, multiple line spanning, Python object types, Python numbers Programming Exercises	Prof. Saritha A N
3	20/04/2022 5pm to 8pm	Statements: Assignment, expressions/calls, printing, if tests, while loops, for loops, pass statement, break and continue statements Programming Exercises	Prof. Vikranth B M
4	21/04/2022 5pm to 8pm	Lists: List usage, adding list elements, mutability, Methods Dictionaries: Making a dictionary, basic operations, dictionary details Programming Exercises	Prof. Vikranth B M
5	22/04/2022 5pm to 8pm	Tuples: Why use Tuples? sequence unpacking, methods Strings: Basic string operations, indexing and slicing strings, string formatting, combining and separating strings Programming Exercises	Prof. Namratha M
6	25/04/2022 5pm to 8pm	Strings: Regular Expressions Files: File operations, files and streams, creating a file reading from a file, iterating through files, seeking, serialization Programming Exercises	Prof. Namratha M
7	26/04/2022 5pm to 8pm	Object oriented programming: Procedural vs. Object-oriented programming try, except, finally and raise statements, import and from statements, def and return statements, class statements, scope, default arguments Programming Exercises	Dr. Nandhini Vineeth
8	27/04/2022 5pm to 8pm	Object oriented programming: Inheritance, operator overloads, class methods Programming Exercises	Dr. Nandhini Vineeth
9	28/04/2022 5pm to 8pm	Databases: How to use a database, creating a SQLite database Programming Exercises	Dr. Selva Kumar S
10	29/04/2022 5pm to 8pm	Applications using Python: (Web, Data Analytics, Machine Learning)	Dr. Selva Kumar S & Dr. Jyothi S Nayak

Resource Persons details:

1. Dr. Jyothi S Nayak, Professor and HOD, Department of CSE, B.M.S. College of Engineering
2. Dr. Nandhini Vineeth, Assistant Professor, Department of CSE, B.M.S. College of Engineering
3. Dr. Selva Kumar S, Assistant Professor, Department of CSE, B.M.S. College of Engineering
4. Prof. Vikranth B M, Assistant Professor, Department of CSE, B.M.S. College of Engineering
5. Prof. Namratha M, Assistant Professor, Department of CSE, B.M.S. College of Engineering
6. Prof. Saritha A N, Assistant Professor, Department of CSE, B.M.S. College of Engineering

Coordinator details for contact:

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