ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು
M S Ramaiah College of Arts, Science and Commerce
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DEPARTMENT OF MATHEMATICS

REPORT ON SKILL ENHANCED WORKSHOP

Event Name : Python Programming

Date : 12th September 2023

Venue: Mathematics Lab.

Participants: 1st year B.Sc(MCs) students.

Resource Person:

Number of students participated : 17

Event Co-Ordinator : Mrs. Haritha A

Objective: The primary objectives of Python include readability, simplicity, and versatility. It aims to provide a clear and concise syntax, promote code readability, support multiple programming paradigms, and facilitate the development of diverse applications.

Department of Mathematics organized one day Skill Enhanced workshop on "Python Programming " on 12th September 2023 for the students of 1st year B.Sc(MCs) in Mathematics Lab from 9.30 AM and 4:30 PM. The Skill Enhanced workshop was inaugurated by Prof.Jayaram,Vice Principal under the patronage of Sri.M.R.Janakiram (Honarable Director, Gokula Education Foundation), Sri.M.R.Kodandaram (Honarable Director, Gokula Education Foundation) and Sri.Ramprasad (Chief Executive, GenScience, Gokula Education Foundation). The resource person to the workshop was Dr. Machhindranath M Dhane Associate Professor, Dept of Mathematics, Govt. First Grade Collage, Yelahanka , Bengaluru.

The program started by registration of participants of 1st year B.Sc(MCs) at 09.00 am followed by the inauguration and then the sessions began. The students were given tea break in between the sessions.

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Python is High level general purpose programming language.It is Interpreted language, Cross-platform language, Open source language and Object oriented language. Python has a clean and easy-to-read syntax, which makes it beginner-friendly and reduces the cost of program maintenance. Python is an interpreted language, which means that the source code is executed line by line by an interpreter, rather than being compiled into machine code.

Python is versatile and can be used for various applications, including web development (Django, Flask), scientific computing (NumPy, SciPy), machine learning (TensorFlow, PyTorch), data analysis (Pandas), and more.

Dr. Machhindranath M Dhane started the sessions by giving an introduction to Python, how to install the pycharm software and numpy, sympy..backend softwares which helps to run the program.

The following are the topics covered by them in the sessions:

- How to download and install python program
- Installing Packages for Python
- Python Basics
- Tokens in Python
- Python Arithmetic Operators
- Python Logical Operators
- Python Membership Operators
- Python Identity Operators
- Data Types in Python
- Variables, Data Types, and Operators
- How to read input in Python
- Output Variables
- Functions and Modules
- Functions
- Python Loops
- Looping Through a String
- Syntax error, Runtime errors, Semantic errors
- Problem solving techniques
- Chained conditionals, Nested conditionals
- Calculus, Matrices, Matrix method
- Python operators-add, subtract, floor division

After these sessions, there was an interactive session. During the interactive session, students inferred an opinion that they were benefitted by this orientation. They also told that this Skill Enhanced workshop was of immense help to acquire more knowledge about maths practicals. The last session was Valedictory. During the Valedictory function, Vice Principal presided over the function and the program was concluded by thanking each and every one who made this occasion a grand success.

Outcome:
Through this skill enhanced workshop the students will develop the essential concepts of Python programming.The practical knowledge of Python programming basics empowers individuals to write code, develop applications, and automate tasks efficiently.

Skill Enhanced Workshop on Python Programming Photos