

DEPARTMENT OF MATHEMATICS

REPORT ON SKILL ENHANCED WORKSHOP

Event Name : Pycharm Application Programming

Date : 18th October 2022

Venue: Mathematics Lab.

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

Resource Person: Dr. Rajarajeswari S And Mr. Pramod S

Number of students participated : 22

Event Co-Ordinator : Mrs. Haritha A

Objective: The course helps to build basic program using fundamental programming construct like variables, conditional logic, looping functions using the pycharm programming language

Department of Mathematics organized one day Skill Enhanced workshop on “Pycharm Application Programming ” on 18th October 2022 for the students of 1st year B.Sc(EMCs) in Mathematics Lab from 9.30 AM and 4:00 PM. The Skill Enhanced workshop was inaugurated by Prof.Jayaram,Vice Principal under the patronage of Sri.M.R.Janakiram (Honorable Director, Gokula Education Foundation), Sri.M.R.Kodandaram (Honorable Director, Gokula Education Foundation) and Sri.Ramprasad (Chief Executive, GenScience, Gokula Education Foundation). The resource person to the workshop was Dr. Rajarajeswari S Associate Professor And Mr. Pramod S, Assistant Professor , Department of Computer Science and Engineering, MSRIT, Bengaluru .

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

Pycharm is High level general purpose programming language. It is Interpreted language, Cross-platform language, Open source language and Object oriented language. There are two Pycharm versions – Pycharm2 and Pycharm3.

Dr. Rajarajeswari S And Mr. Pramod S started the sessions by giving an introduction to Pycharm, 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:

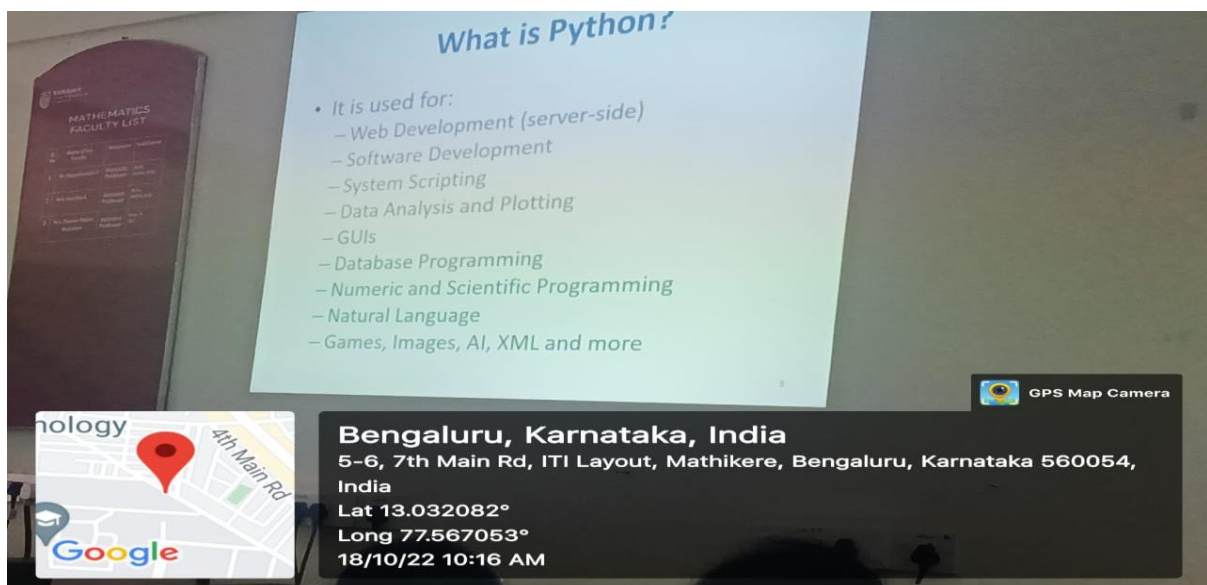
- How to download and install pycharm program
- Installing Packages for Pycharm
- Pycharm Basics
- Tokens in Pycharm
- Pycharm Arithmetic Operators
- Pycharm Logical Operators
- Pycharm Membership Operators
- Pycharm Identity Operators
- Data Types in Pycharm
- Variables in Pycharm
- How to read input in Pycharm
- Output Variables
- Built-in Data Types
- What is debugging
- Functions
- Pycharm Conditional Statements
- Pycharm Conditions and If statements
- Pycharm Loops
- Pycharm For Loops
- Looping Through a String
- Syntax error, Runtime errors, Semantic errors
- Symbolic Mathematics with SymPy
- Problem solving techniques
- Chained conditionals, Nested conditionals
- Calculus, Matrices, Matrix method
- Pycharm operators-add, subtract, modulus, floor division, Bitwise AND....
- Decision making statements: if, else, elif, nested if.

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.

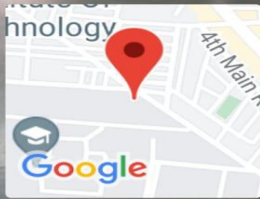
Outcome:

Through this skill enhanced workshop the students will develop the essential concepts of pycharm programming and gives you in-depth knowledge in data analytics, machine learning, data visualization, web scraping and natural language processing.

Skill Enhanced Workshop on Pycharm Application Programming Photos



photos:



Bengaluru, Karnataka, India

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Lat 13.032242°

Long 77.566669°

18/10/22 10:15 AM