One -week Addon Certificate Course
on
Python Programming

Date : May 12-14 th 2022 and May 18-21 2022
**Time:** 12.30PM to 4.30PM   **Venue:** UG Computer Lab.

Python is a general-purpose language and versatile programming language that can be used in different fields Machine Learning and AI, Web Development, Data Analytics, Game Development, IoT, Application Development, and Game Development. Etc   Recognising this ,Department of Computer Science has organized a **One week Add-on Certificate Course** on **"Python Programming "** in association with **Sansah Solutions pvt Ltd, Hyderabad** on **May 12-14 th and May 18th -21st 2022** from 12.30PM to 4 30PM.in UG Computer Lab.

The main objective of this course is to provide basic knowledge of Python and acquire programming skills in Python.

Mrs Vijitha ,Head,Deparment of Computer Science welcomed all the dignitaries, staff and students . Later Dr.K.SomeshwerRao, Principal, KMICS inaugurated the Course, motivated the students and explained that these kind of courses are beneficial for their upcoming placements and technical knowledge. The Resource Person was Mr .Sanjay Kumar ,CEO, Sansah Solutions Pvt Ltd. During the training course , his constant support throughout the course   and helped sharing resources and figuring out students' problems with the concepts, while solving the given exercises. A total of **49 s**tudents ranging from first year students to third year students from Computer Science B.SC (MSCs, MPCs & MPC) took part in this workshop.

Glimpses of the Course
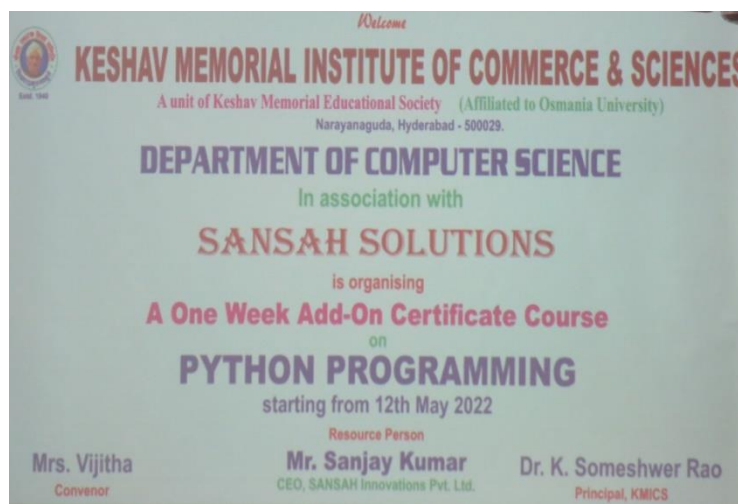
Certificate Course Banner

Vijitha,Head,Department of Computer Science
Addressing the Welcoming Dignitaries, Staff &
Participants

Dr.K.SomesherRao , Principal, KMICS
Addressing the Participants

DAY 1: 12ᵗʰ May 2022   # Introduction to Python Programming

- What is Python?
- Why do we need Python?
- Applications of python (web applications, web frameworks, GUI based desktop applications   etc.)
- Program structure in Python

Execution steps
    • Interactive Shell
    • Executable or script files.
    • User Interface or IDE

Memory management and Garbage collections
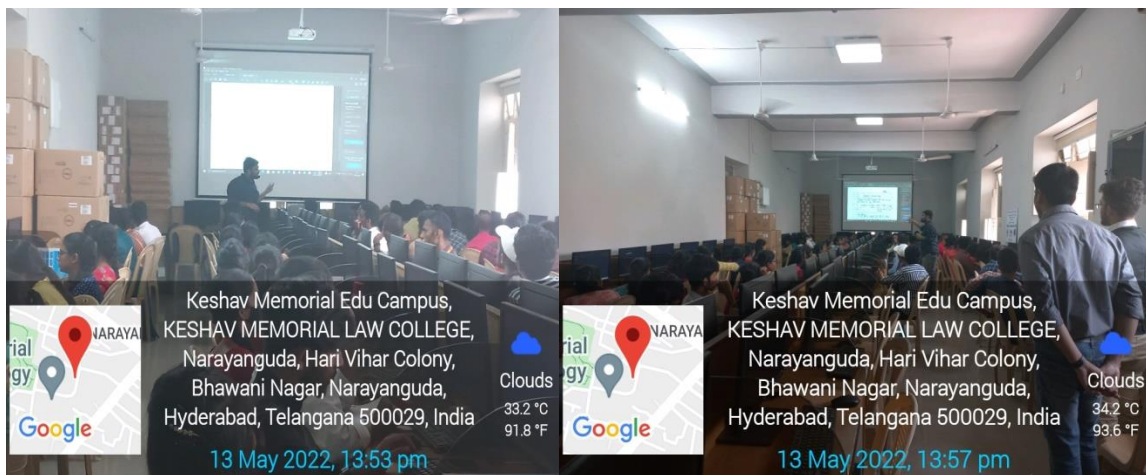   • Object creation and deletion
    • Object properties

Day 1 : Students training under resource Person Mr .Sanjay Kumar,

Day 2 : 13ᵗʰ May 2022 # Data Types and Operations

- Variables
- Numbers
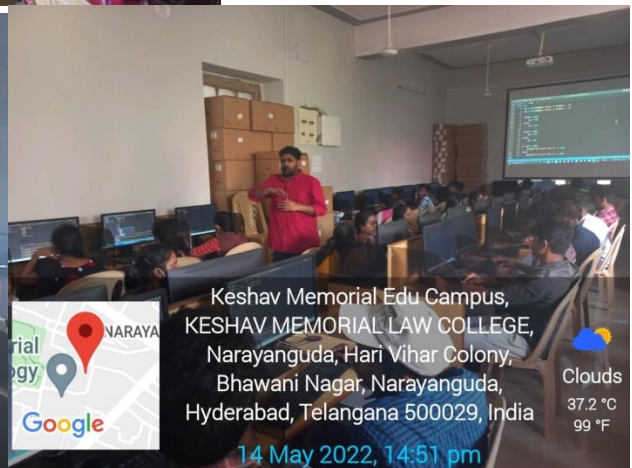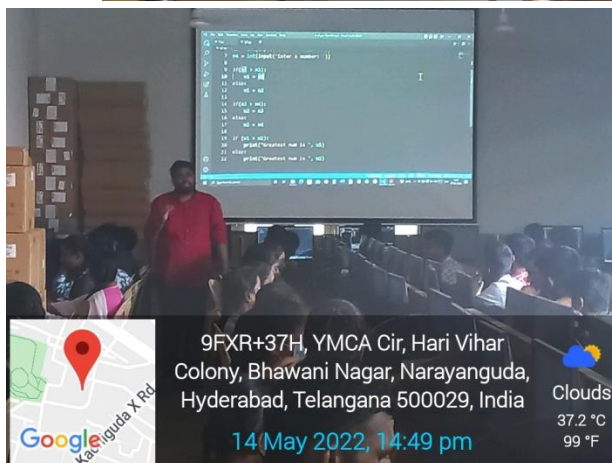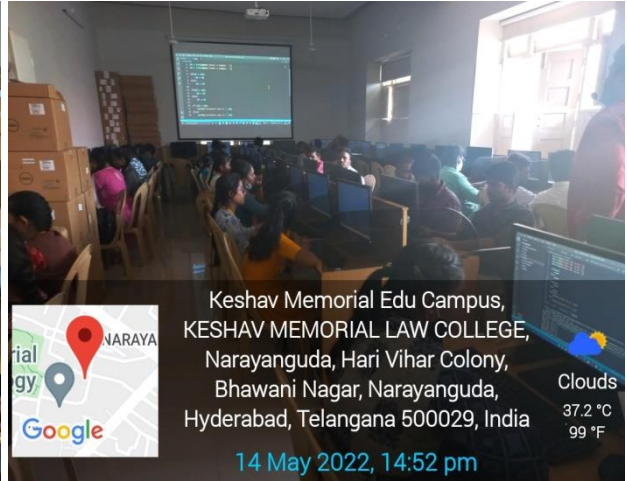- Strings
- List
- Tuple
- Dictionary
- Other Core Types

Keshav Memorial Edu Campus, KESHAV MEMORIAL LAW COLLEGE, Narayanguda, Hari Vihar Colony, Bhawani Nagar, Narayanguda, Hyderabad, Telangana 500029, India
Clouds 33.2 °C 91.8 °F
13 May 2022, 13:53 pm

.**Day 3: 14ᵗʰ May 2022   # Statements and Syntax in Python**

- Assignments, Expressions and prints
- If tests and Syntax Rules
- While and For Loops
- Iterations and Comprehensions

9FXR+37H, YMCA Cir, Hari Vihar Colony, Bhawani Nagar, Narayanguda, Hyderabad, Telangana 500029, India
Clouds 37.2 °C 99 °F
14 May 2022, 14:49 pm

Keshav Memorial Edu Campus, KESHAV MEMORIAL LAW COLLEGE, Narayanguda, Hari Vihar Colony, Bhawani Nagar, Narayanguda, Hyderabad, Telangana 500029, India
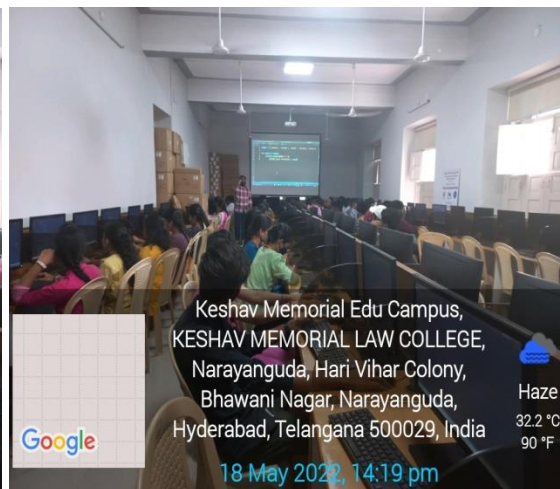Clouds 37.2 °C 99 °F
14 May 2022, 14:51 pm
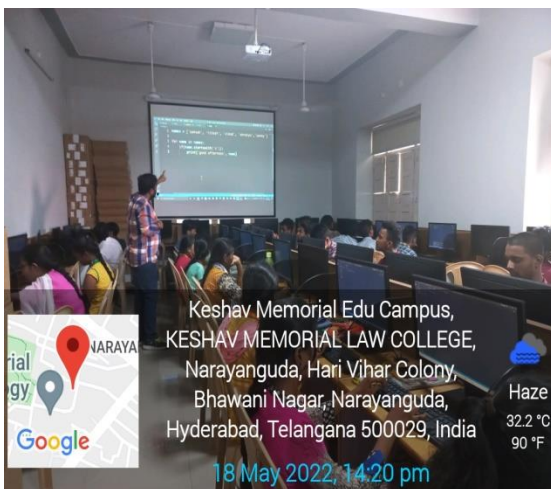
Day 4 :18th May 2022   # File Operations
> • Opening a file
> • Using Files
> • Other File tools

 # Functions in Python
> • Function definition and call
> • Function Scope
> • Arguments
> • Function Objects
> • Anonymous Functions

Day 5 glimpses

Day 5 : 19th May 2022   #Modules and Packages
> • Module Creations and Usage
> • Module Search Path
> • Module Vs. Script

• Package Creation and Importing

Day 6 :20th May 2022   **# Classes in Python**

- Classes and instances
- Classes method calls
- Inheritance and Compositions
- Static and Class Methods
- Bound and Unbound Methods
- Operator Overloading
- Polymorphism

Day 7: 21ˢᵗ May 2022   # Exception Handling in Python Programming
- Default Exception Handler
- Catching Exceptions
- Raise an exception
- User defined exception

Mini Project: Library Management Systems
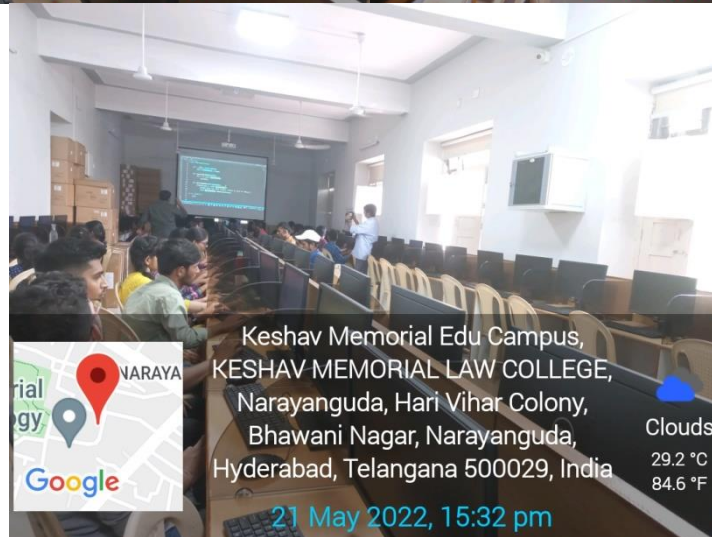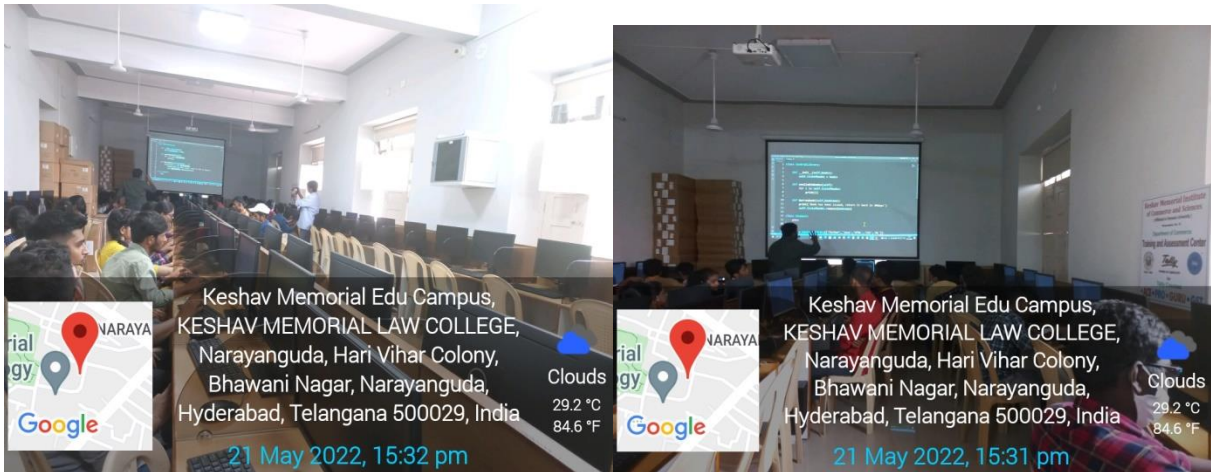
On the last day of Course, students were taught a mini project on Library Management Systems. In this hands-on course, students gained experience on Python programming and its features. Students learnt the applications of various modules in Python.

Valedictory Glimpses :   Programme held on 24th May 2022 ,1.00 PM in UG Seminar Hal II Floor
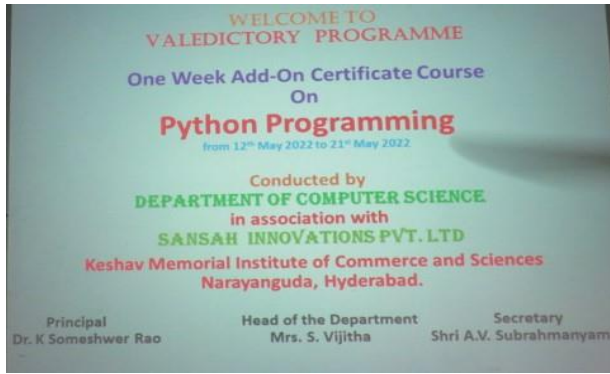
Valedictory Banner on 24th May

Vijitha,HOD,Department of Computer Science, Welcoming ChiefGuest, Staff and Students

Dr.K.Someshwer Rao,Principal,KMICS addressing the students

Mr.SanjayKumar,Resource Person ,KMICS addressing the Students

Dr.K.Someshwer Rao,Principal,KMICS Motivating the Students

Students during Valedictory programme

Distribution of Certificates by Dr.K.Someshwer Rao Garu, Principal,KMICS

Felicitating Resource Person Mr.Sanjay Kumar by
Dr.K.Someshwer Rao Garu,Principal,KMICS
and Dr,J.Nageshwer Rao Garu,Director,KMICS

Proposing Vote of thanks by Mr.NarasimhaReddy,
Lecturer in Computer Science

Principal Sir, Resource Person
and Computer Science Department Faculty

Concluding picture with Principal Sir
Principal Sir, Resource Person and Computer
Science Faculty

Course Completion Certificate

Contents & Syllabus

Day 1   # Introduction to Python Programming
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- Object creation and deletion
- Object properties

Day 2   # Data Types and Operations

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- Strings
- List
- Tuple
- Dictionary
- Other Core Types

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- Other File tools

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  • Module Search Path
  • Module Vs. Script
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  • Classes method calls
  • Inheritance and Compositions
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 ** Mini Project: Library Management Systems

Given list is of the students who have successfully completed Python internship training program

Sno	HTNO	Name of the Student	Course	Mobileno	Email