Report of MoU

2021-2022

DEPARTMENT OF PHYSICS

In Collaboration with

NETWORKZ SYSTEMS

Thiruvananthapuram

Signed on 10-03-2022

Duration : 1 Year

Training Co- Ordinator : Dr. Veena Suresh Babu

An MoU has been signed with Network systems and the department of Physics, All Saints' College, Thiruvananthapuram on 10.03.2022. They have agreed to conduct a Certificate course on "Python Programming" for the final year Physics UG and PG students of All Saints' College on payment of a fee amount of Rs. 1500/- per student. The inauguration of the course was conducted on 18.03.2022. They have followed a unique step by step, systematic and employable skill development program. As part of this, 30 hours training sessions were conducted in both online and offline mode. Two hour sessions were conducted on each day which was indeed a great platform for our students to develop an industry integrated awareness and meet the expectations on python programming. A trainer was assigned to students and training was given on latest tools and techniques. Periodic assessment was also conducted to monitor the progress of students and participation certificate was issued to all participants based on their attendance and assessment. Course was oriented on the essential concepts of Python programming, and gave an in-depth knowledge in data analytics, machine learning, data visualization, web scraping, and natural language processing etc.

Course Objectives

At the completion of course, students will be able to:

- Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions.
- Work with user input to create fun and interactive programs.
- To acquire programming skills in core Python.
- To acquire Object Oriented Skills in Python
- To develop the skill of designing Graphical user Interfaces in Python
- To develop the ability to write database applications in Python

- ## Syllabus

Unit – I : Introduction to Python (6 Hours)

Basic coding skills, working with data types and variables, working with numeric data, working with string data, Python functions, Boolean expressions, selection structure, iteration structure, Illustrative Programs, Exercises

Unit – II : Define and use functions and modules (6 Hours)

Working with recursion, Basic skills for working with lists, work with a list of lists, work with tuples, work with dates and times, get started with dictionaries, Illustrative programs, Exercises.

Unit – III : An introduction to file I/O (6 Hours)

Use text files, use CSV files, use binary files, Handle a single exception, handle multiple exceptions, Illustrative programs, Exercises

Unit – IV : Object Oriented Programming (6 Hours)

An introduction to classes and objects, define a class, work with object composition, work with encapsulation, work with inheritance, override object methods, Illustrative programs, Exercises

Unit –V : An introduction to relational databases (6 Hours)

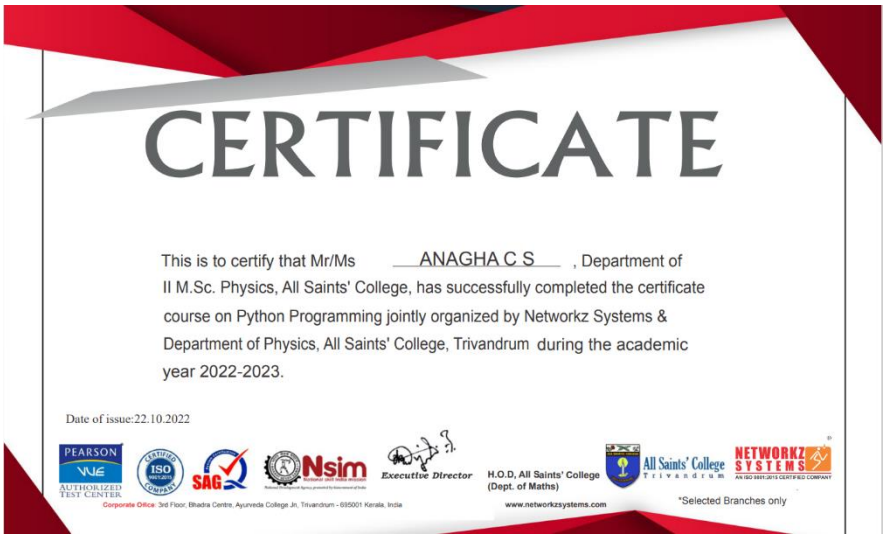
SQL statements for data manipulation, Using SQLite Manager to work with a database, Using Python to work with a database, Creating a GUI that handles an event, working with components, Illustrative programs, Exercises

List of Participants

Sl. No.	Name	Class
1	ANAGHA C S	PG S2
2	ANCY PATRICK	PG S2
3	APARNA P	PG S2
4	ARSHA S	PG S2
5	HEEBA R P	PG S2
6	JOMOL AJI	PG S2
7	LEKSHMI M J	PG S2
8	LENITTA RAJ M	PG S2
9	ABHIRAMI A S	PG S1
10	ALNA MANZOOR	PG S1
11	AMRUTHA K U	PG S1
12	ANNIE SUSAN MATHEW	PG S1
13	ARUNIMA A M	PG S1
14	ATHIRA V S	PG S1
15	CELIA LOUIS	PG S1
16	DEVIKA G BABU	PG S1
17	KARTHIKA R S	PG S1
18	MUNEERA S	PG S1
19	POURNAMI C S	PG S1
20	RESHMA J R	PG S1
21	RESHMA KRISHNAN S	PG S1
22	SREELEKSHMI R	PG S1

23	ANNIE.M	UG S5
24	GOURI BHADRAN	UG S5
25	GOWRI NAIR A S	UG S5
26	HARITHA H A	UG S5
27	JENNIFER KENNEDY	UG S5
28	NIRUPAMA B GONSALVEZ	UG S5
29	POOJA SUNIL	UG S5
30	RESHMI S	UG S5
31	SANDRA S S	UG S5
32	ADHEENA I SIVAN	UG S5
33	AJILA B S	UG S5
34	ANAINA SEBASTIAN	UG S5
35	ANJALI J B	UG S5
36	ANJU S	UG S5
37	ARCHA V	UG S5
38	ASWATHY REGHUNATH	UG S5

Sample Certificate



CERTIFICATE

This is to certify that Mr/Ms ANAGHA C S , Department of II M.Sc. Physics, All Saints' College, has successfully completed the certificate course on Python Programming jointly organized by Networkz Systems & Department of Physics, All Saints' College, Trivandrum during the academic year 2022-2023.

Date of issue:22.10.2022

PEARSON VUE AUTHORIZED TEST CENTER

Corporate Office: 3rd Floor, Bhadra Centre, Ayurveda College Jn, Trivandrum - 695001 Kerala, India

Executive Director

H.O.D, All Saints' College (Dept. of Maths)

All Saints' College Trivandrum

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www.networkzsystems.com

*Selected Branches only

CERTIFICATE

This is to certify that Mr/Ms ARSHA S , Department of II M.Sc. Physics, All Saints' College, has successfully completed the certificate course on Python Programming jointly organized by Networkz Systems & Department of Physics, All Saints' College, Trivandrum during the academic year 2022-2023.

Date of issue:22.10.2022

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