St. Michael's College, Cherthala

Alappuzha, Kerala-688 539
Affiliated to University of Kerala
and Re-accredited by NAAC with 'A' Grade

ADD ON COURSE 2022-23

Name of the Programme : PYTHON

Name of the Department : SOFTWARE

Course Code   : SD 305

St. Michael's College

MAYITHARA P.O., CHERTHALA, ALAPPUZHA-688539

An institution with Minority Status Affiliated to the University of Kerala and Re-accredited by NAAC with 'A' Grade

Add on Course - 2022-23

CHEMISTRY
Food Science and Quality Control

COMMERCE
Certified Insurance Advisor and Risk Analyst (CIARA)

MANAGEMENT
Diploma in Port Operations and Management (DPOM)

ECONOMICS
Statistical Data Analysis Using Software Packages

PSYCHOLOGY
Guidance Counciling and Psychology of Interpersonal Relationships

PHYSICS
Basics of C Programming

SOFTWARE DEVELOPMENT
Python

TOURISM STUDIES
Customer Service Skills

ZOOLOGY
Techniques in Coastal Aquaculture

HISTORY
(Certificate Course)
Introduction to Indian Constitution

ENGLISH
(Certificate Course)
Basic Proficiency in English Language

MALAYALAM
(Certificate Course)
Madhyama Malayalam

NAME OF COURSE   **: PYTHON**

COURSE CODE   **: SD 305**

NO OF STUDENTS ENROLLED   **: 34**

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ADD ON COURSE ON PYTHON PROGRAMMING

Submitted by

Software Development Division

Department of Vocational Disciplines

St. Michael's College, Cherthala

Name of course : PYTHON

Course Structure:

The course is designed in 4 modules

Module 1 (8 hrs)   : Programming Concepts

Module 2 (8 hrs)   : Basics of PYTHON

Module 3 (10 hrs) : Variables and Datatypes in PYTHON

Module 4 (4 hrs)   : Operators in PYTHON

Detailed Syllabus of Course

Module 1 PROGRAMMING CONCEPTS

This module will introduce you to the programming world covering the basic concepts of programming where you shall understand the importance of programming languages and their applications.

Module 2 BASICS OF PYTHON

You will understand the basics of Python, a high-level, interpreted, object-oriented language with dynamic semantics; designed with an emphasis on readability and simplicity in this module.

Module 3 VARIABLES AND DATA TYPES IN PYTHON

This section will demonstrate how to declare variables using integer, floating point, string, and Boolean data types and store them depending upon the declared variable size.

Module 4 OPERATORS IN PYTHON

This section will talk to you about relational, arithmetic, and logical operators and helps you understand how different operations are performed on the data using the mentioned operators.`

Program Objective:

• To teach the basic principles of PYTHON programming language.

• To provide design and development of PYTHON programming skill.

• To provide practical exposure to write, debug and execute the PYTHON program

Duration of Programme:

30 hrs (either in the evening of regular working days or on Saturdays)

Importance Of The Course

● Python is a multi-paradigm programming language with features including imperative, procedural, object-oriented, functional, reflective, etc.

● Python is highly versatile.

● Possess a comprehensive collection of built-in libraries and tools to improve the language's capabilities.

● A sizable community supports Python.

● Python was created to have more readable code than other languages.

● In comparison to other programming languages, it has fewer lines of code. As a result, it is simple to comprehend.

Scope Of The Course

Python resolves names using the so-called LEGB rule, which is named after the Python scope for names. The letters in LEGB stand for Local, Enclosing, Global, and Built-in.

● Local (or function) scope is the code block or body of any Python function or lambda expression. This Python scope contains the names that you define inside the function. These names will only be visible from the code of the function. It's created at function call, not at function definition, so you'll have as many different local scopes as function calls. This is true even if you call the same function multiple times, or recursively. Each call will result in a new local scope being created.

● Enclosing (or nonlocal) scope is a special scope that only exists for nested functions. If the local scope is an inner or nested function, then the enclosing scope is the scope of the outer or enclosing function. This scope contains the names that you define in the enclosing function. The names in the enclosing scope are visible from the code of the inner and enclosing functions.

● Global (or module) scope is the top-most scope in a Python program, script, or module.This Python scope contains all of the names that you define at the top level of a program or a module. Names in this Python scope are visible from everywhere in your code.

● Built-in scope is a special Python scope that's created or loaded whenever you run a script or open an interactive session. This scope contains names such as keywords, functions, exceptions, and other attributes that are built into Python. Names in this Python scope are also available from everywhere in your code. It's automatically loaded by Python when you run a program or script.

Number And Details Of The Students Registered For The Program

St.Michael's College, Cherthala

DETAILS OF THE STUDENTS

Discipline   : B Voc Software

Course Title : Python Programming

Sl No	Candidate Code	Name of the Student
1	35120136001	ABHAYA MARIYA P J
2	35120136002	ABHIRAMI P K
3	35120136003	ABIN P J
4	35120136004	ADARSH R
5	35120136005	AL AMEEN K S
6	35120136007	ALEENA DOLPHIN
7	35120136008	ALISTER COLLINS S
8	35120136009	ANJIMA J
9	35120136011	ASHWIN REJU
10	35120136012	ATHUL GIREESH P
11	35120136013	BEN ANTONY K B
12	35120136014	CIBIN.P.S
13	35120136015	EDWIN EZIDHORE
14	35120136017	JEEVAN THOMAS T D
15	35120136018	JEFFIN JACOB
16	35120136019	JINU. K.CYRUS
17	35120136020	KAVYA K
18	35120136021	MANEESHA S
19	35120136022	MARINA ROBERT

20	35120136023	MILAN GOMEZ
21	35120136024	MILAN. K.J
22	35120136025	MOHAMMAD AJVAD . V
23	35120136026	MUHAMMED RAMEES. K.K
24	35120136027	NANDANA S V
25	35120136028	NOEL MARTIN
26	35120136030	SANDRA SEBASTIAN
27	35120136031	SHAMEER ALI A
28	35120136032	SNEHA JOHNSON
29	35120136033	SNEHAPRABHA K.R.
30	35120136034	SWETHA MARIYA JOSE
31	35120136035	TINCY MARTIN
32	35120136036	TOM SEBASTIAN A S
33	35120136037	VIBHUMOL S
34	35120136038	WELKINCE CLAIR.P.N

Attendance Statement

Add on course Attendance statement

Total no of hours:30

Candidate Code	Student Name	Attendance %	Attained Required Percentage
35120136001	ABHAYA MARIYA P J	85	YES
35120136002	ABHIRAMI P K	88	YES
35120136003	ABIN P J	87	YES
35120136004	ADARSH R	77	YES
35120136005	AL AMEEN K S	80	YES
35120136007	ALEENA DOLPHIN	76	YES

35120136008	ALISTER COLLINS S	79	YES
35120136009	ANJIMA J	80	YES
35120136011	ASHWIN REJU	87	YES
35120136012	ATHUL GIREESH P	97	YES
35120136013	BEN ANTONY K B	87	YES
35120136014	CIBIN.P.S	93	YES
35120136015	EDWIN EZIDHORE	97	YES
35120136017	JEEVAN THOMAS T D	83	YES
35120136018	JEFFIN JACOB	87	YES
35120136019	JINU. K.CYRUS	93	YES
35120136020	KAVYA K	87	YES
35120136021	MANEESHA S	93	YES
35120136022	MARINA ROBERT	77	YES
35120136023	MILAN GOMEZ	97	YES
35120136024	MILAN. K.J	77	YES
35120136025	MOHAMMAD AJVAD . V	83	YES
35120136026	MUHAMMED RAMEES. K.K	87	YES
35120136027	NANDANA S V	87	YES
35120136028	NOEL MARTIN	93	YES
35120136030	SANDRA SEBASTIAN	89	YES
35120136031	SHAMEER ALI A	94	YES
35120136032	SNEHA JOHNSON	79	YES
35120136033	SNEHAPRABHA K.R.	88	YES
35120136034	SWETHA MARIYA JOSE	100	YES
35120136035	TINCY MARTIN	89	YES
35120136036	TOM SEBASTIAN A S	78	YES
35120136037	VIBHUMOL S	98	YES
35120136038	WELKINCE CLAIR.P.N	90	YES

Class Schedule

Class Schedule Format 2022-2023

Department:Bvoc　　　　**Software**

Development　　　　　　　　　　　　**Course:Python**

Sl No	Date	Day	Time	Name of Teacher	Class Room No
1	17/10/2022	Monday	3:30 pm to 4:30 pm	Pimmy Mathews	Bvoc 2
2	19/10/2022	Wednesday	3:30 pm to 4:30 pm	Pimmy Mathews	Bvoc 2
3	22/10/2022	Saturday	9:30 am to 10:30 am	Pimmy Mathews	Bvoc 2
4	22/10/2022	Saturday	10:30 am to 11:30 am	Pimmy Mathews	Bvoc 2
5	22/10/2022	Saturday	11:30 am to 12:30 pm	Pimmy Mathews	Bvoc 2
6	31/10/2022	Monday	3:30 pm to 4:30 pm	Lekshmi M	Bvoc 2
7	11-02-2022	Wednesday	3:30 pm to 4:30 pm	Lekshmi M	Bvoc 2
8	11-05-2022	Saturday	9:30 am to 10:30 am	Lekshmi M	Bvoc 2
9	11-05-2022	Saturday	10:30 am to 11:30 am	Lekshmi M	Bvoc 2
10	11-05-2022	Saturday	11:30 am to 12:30 pm	Lekshmi M	Bvoc 2
11	14/11/2022	Monday	3:30 pm to 4:30 pm	Akhila	Bvoc 2
12	16/11/2022	Wednesday	3:30 pm to 4:30 pm	Akhila	Bvoc 2
13	19/11/2022	Saturday	9:30 am to 10:30 am	Akhila	Bvoc 2
14	19/11/2022	Saturday	10:30 am to 11:30 am	Akhila	Bvoc 2
15	19/11/2022	Saturday	11:30 am to 12:30 pm	Akhila	Bvoc 2
16	5-12-2022	Monday	3:30 pm to 4:30 pm	Pimmy Mathews	Bvoc 2
17	7-12-2023	Wednesday	3:30 pm to 4:30 pm	Pimmy	Bvoc 2

				Mathews	
18	17/12/2022	Saturday	9:30 am to 10:30 am	Pimmy Mathews	Bvoc 2
19	17/12/2022	Saturday	10:30 am to 11:30 am	Pimmy Mathews	Bvoc 2
20	17/12/2022	Saturday	11:30 am to 12:30 pm	Pimmy Mathews	Bvoc 2
21	01-09-2023	Monday	3:30 pm to 4:30 pm	Lekshmi M	Bvoc 2
22	01-11-2023	Wednesday	3:30 pm to 4:30 pm	Lekshmi M	Bvoc 2
23	21/1/2023	Saturday	9:30 am to 10:30 am	Lekshmi M	Bvoc 2
24	21/1/2023	Saturday	10:30 am to 11:30 am	Lekshmi M	Bvoc 2
25	21/1/2023	Saturday	11:30 am to 12:30 pm	Lekshmi M	Bvoc 2
26	13/02/2023	Monday	3:30 pm to 4:30 pm	Akhila	Bvoc 2
27	15/02 /2023	Wednesday	3:30 pm to 4:30 pm	Akhila	Bvoc 2
28	18/02/2023	Saturday	9:30 am to 10:30 am	Akhila	Bvoc 2
29	18/02/2023	Saturday	10:30 am to 11:30 am	Akhila	Bvoc 2
30	18/02/2023	Saturday	11:30 am to 12:30 pm	Akhila	Bvoc 2

Course Coordinator   **Head of the Department**

St. Michael's College, Cherthala

Add-on Course Examination March 2023

Discipline: Software Development

Python programming

Time:1 hr   Marks:30

Part A

Answer ALL questions (Each question carries 1 mark)

1.What is recursion?

2.What is architectural neutrality?

3.Who developed python programming?

4.Is python case sensitive?

5.What is the extension of a python file?

6.What does PIP stands for python?

7.Which module in python pass the option received from the command drive?

8.What arithmetic operator cannot be used with strings in python?

9.What is the maximum possible length of identifiers in python?

10.What are the main functions of python?

(10x1 =10 Marks)

Part B

Answer any FIVE of the following questions (Each question carries 2 mark)

11.Explain various data types in python?

12.Differentiate procedural programming and object-oriented programming?

13.Write in brief about the importance of programming language?

14.Explain applications of python?

15.What is meant by readability?

16.Illustrate with example the variable declaration in python?

17.Why python is called as a high-level language?

18.Differentiate compiler and interpreter?

(5* 2=10 Marks)

Part C

Answer any ONE of the following questions (Each question carries 10 mark

19.Discuss various operators in python

20.Discuss OOP concepts

(1*10=10 Marks)

Mark list

Mark List

Discipline   : B Voc Software

Course Title : Python Programming

Date of Examination : 16/03/2023   Maximum Marks: 30

Sl No	Candidate Code	Name of the Student	Mark Obtained
1	35120136001	ABHAYA MARIYA P J	29
2	35120136002	ABHIRAMI P K	27
3	35120136003	ABIN P J	28
4	35120136004	ADARSH R	26
5	35120136005	AL AMEEN K S	29
6	35120136007	ALEENA DOLPHIN	26
7	35120136008	ALISTER COLLINS S	23
8	35120136009	ANJIMA J	26
9	35120136011	ASHWIN REJU	20
10	35120136012	ATHUL GIREESH P	27
11	35120136013	BEN ANTONY K B	25
12	35120136014	CIBIN.P.S	26
13	35120136015	EDWIN EZIDHORE	24
14	35120136017	JEEVAN THOMAS T D	Absent
15	35120136018	JEFFIN JACOB	25

16	35120136019	JINU. K.CYRUS	Absent
17	35120136020	KAVYA K	22
18	35120136021	MANEESHA S	22
19	35120136022	MARINA ROBERT	22
20	35120136023	MILAN GOMEZ	26
21	35120136024	MILAN. K.J	25
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25	35120136028	NOEL MARTIN	29
26	35120136030	SANDRA SEBASTIAN	27
27	35120136031	SHAMEER ALI A	28
28	35120136032	SNEHA JOHNSON	28
29	35120136033	SNEHAPRABHA K.R.	28
30	35120136034	SWETHA MARIYA JOSE	25
31	35120136035	TINCY MARTIN	84
32	35120136036	TOM SEBASTIAN A S	21
33	35120136037	VIBHUMOL S	Absent
34	35120136038	WELKINCE CLAIR.P.N	24

St. Michael's College, Cherthala
Mayithara P.O., Cherthala,
Re-accredited by NAAC with 'A' Grade

Add-on / Certificate Course
Certificate of Merit

This is to certify that Mr./Ms.————— **ABHAYA MARIYA P J** ————— of

B.Voc Software Development - 2020 Admission

has completed certificate/Add-on course on.—————————————

Python Programming

————————————————————————

In the academic year 2022-2023.

He/She is awarded with a grade.......... **A+**

Head of the Department   Co-ordinator   Principal

St. Michael's College, Cherthala
Mayithara P.O., Cherthala,
Re-accredited by NAAC with 'A' Grade

Add-on / Certificate Course
Certificate of Merit

This is to certify that Mr./Ms.————— **ABHIRAMI P K** ————— of

B.Voc Software Development - 2020 Admission

has completed certificate/Add-on course on.—————————————

Python Programming

————————————————————————

In the academic year 2022-2023.

He/She is awarded with a grade.......... **A+**

Head of the Department   Co-ordinator   Principal

PHOTOS