

MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM

STUDENT ENROLMENT LIST

Name of department : PHYSICS

Name of course : INTRODUCTION TO PYTHON PROGRAMMING (2021-22)

Sl No	Name of Student	Signature
1	ABHIRAM KRISHNAN R	Abir
2	ABINA SALEEM	Abin Saleem
3	ACHU S	AS
4	ADHISH S SUTAN	ASB
5	AISWARYA S	Aiswarya
6	ANILA S	Anila
7	ANJALI R	AR
8	APARNA P R	APR
9	APARNA S MADHU	Aparna
10	ARKAN C SEKHARAN	ACS
11	ARSHA RAJENDRAN	Arsha
12	ASWATHI ANIL	Aswathy Anil
13	AYSA FARSAANA R	AF
14	DELLA ANTONY	Della Antony
15	GOPIKA G NAIR	Gopika
16	NIMITHA S J	Nima
17	NIRANTAN S	Nira
18	SETHULEKSHMI K S	Sethu
19	BREELEKSHMI M	Bree
20	BREELEKSHMI S	Bree
21	VAISHNAV V	Vaishnav
22	VIDYA SABU	Vidya
23	ABHJITH S	Abhijith
24	ABHJITH S	Abhijith
25	ABHILEKSHMI J S	Abhilekshmi
26	ABHISHEK M P	Abhishek
27	ABHITHA B M	Abhitha
28	AKHIL S L	Akhil
29	AMAL A	Amal
30	ANANDU S J	Anandhu
31	ANJUKRISHNA S	Anju
32	ARAVIND ANIL	Aravind
33	ANJU KRISHNA S	Anju
34	ATHIRA R	Athira



35	B S GAYATHRI	Gayathri
36	GOKUL RAJ S	Gokul
37	JAYAGHESH PRASAD S	Jayag
38	MEGHAPRABHA D	Megha
39	MUHAMMED SAHID S	Sahid
40	NANDHANA B S	Nand
41	RESHMA R	Reshma
42	SOORAJ S	Sooraj
43	SREELEKSHMI A	Sree
44		
45		Smitha
46		Dr Smitha S.L.
47		
48		
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DEPARTMENT OF PHYSICS
M. M. N. S. S. COLLEGE



Introduction to Python Programming.

Curriculum

Python - Python development - Python interfaces, First programme, Python shell, number, Variables, Python operators: arithmetic, logic, boolean etc, python string data type, string methods, properties, python collection data types: List, tuples, sets & dictionary, loops: for, if, while etc, control flow, file input and output functions - Simple programmes in python.

Objectives

1. Familiarisation of a high level programming language.
2. In depth understanding of Python programming basics.
3. Ability to create programmes independently.
4. Familiarisation of the applications of Python in various fields.

Smruti



Smruti
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KOTTIYAM

15/11/2021 (Monday) 3.30-4.30
 17/11/2021 (Wednesday) 3.30-4.30
 20/11/2021 (Saturday) 9.30-12.30
 1.30-3.30

24/11/2021 (Wednesday) 3.30-4.30
 27/11/2021 (Saturday) 9.30-12.30
 1.30-3.30

29/11/2021 (Monday) 3.30-4.30

2/12/2021 (Thursday) 3.30-4.30

11/12/21 (Saturday) 9.30-12.30
 1.30-3.30

14/12/21 (Tuesday) 3.30-4.30

4/1/22 (Tuesday) 3.30-4.30

15/1/22 (Saturday) 9.30-12.30
 1.30-4.30

21/1/22 Friday 3.30-4.30

27/1/22 Thursday 3.30-4.30

28/1/22 Friday 3.30-4.30



Smelhe
 (Dr. Smelhe SL)

Python Introduction
 Python development,
 first program,
 sample program

Python shell,
 Python operators
 Lab: Sample

Python string

Python Collection

Python Collection datatypes: Lists, sets, dictionary, Tuple
 Lab: Sample programmes.

Loops in Python

for loops, Sample program.
 loops in Python - while, for if, else if, else
 Lab.

File i/p and o/p functions

File functions

Sample program

Python Interfaces.

Python Installation,

data types, variables.

: arithmetic, logical & boolean operators.
 Programmes.

data type, string methods, properties.

data types: Lists.

Satheesh S. Hari
 DEPARTMENT OF PHYSICS
 D.M. N. S. S. COLLEGE
 KOTTURAM

Introduction to Python Programming

Add On-Course 2021-22, PG Department of Physics

MM NSS College, Kottiyam

Total Marks: 50

Duration: 2 Hours

Section A: 1-Mark Questions *Answer all questions. Each question carries 1 mark.*

1. What is the keyword used to define a function in Python?
2. How do you declare a variable in Python?
3. What is the purpose of the `print()` function in Python?
4. What data type is used to store a sequence of characters in Python?
5. How do you create a list with the elements 1, 2, and 3 in Python?

Section B: 2-Mark Questions *Answer all questions. Each question carries 2 marks.*

6. Explain the difference between a list and a tuple in Python. Provide a simple example of each.
7. How does Python handle errors and exceptions? Write a code snippet to demonstrate handling a division by zero error.
8. What is a dictionary in Python? Write a simple example to create a dictionary with keys 'name' and 'age'.
9. Describe the use of the `for` loop in Python with a brief example.
10. How do you read input from the user in Python? Write a code snippet to read and print a user's name.

Section C: 15-Mark Questions *Answer all questions. Each question carries 15 marks.*

11. **Basic Python Programming:** a. Write a Python program that takes a number as input from the user and prints whether it is even or odd.
b. Extend the program to handle multiple inputs and print a message for each number indicating if it is even or odd.
c. Ensure the program includes proper error handling for non-numeric inputs.
12. **Functions and Modules:** a. Define a function `factorial(n)` that calculates the factorial of a given integer `n`.
b. Write a main program that uses this function to calculate and print the factorial of numbers from 1 to 5.
c. Save the function in a module named `math_functions.py`, and demonstrate how to import and use this function in another Python script.
13. **Working with Lists and Dictionaries:** a. Write a Python program to create a list of dictionaries where each dictionary represents a student with keys 'name' and 'marks'.
b. Add at least three students to the list with their respective names and marks.
c. Write a function to calculate and print the average marks of all students in the list.
14. **File Handling:** a. Write a Python program that reads a text file named `data.txt`, which contains several lines of text.
b. Count and print the number of lines, words, and characters in the file.
c. Write a function to append a new line of text to the file.

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END COURSE EVALUATION

Name of department : PHYSICS

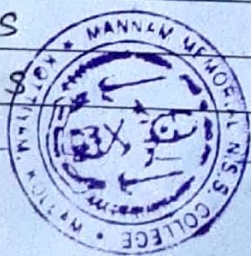
Name of course : INTRODUCTION TO PYTHON PROGRAMMING (2021-22)

Duration of exam : 2 hrs

Total Marks : 50

Sl No	Name of Student	Marks Obtained
1	ABHIRAM KRISHNAN R	41
2	ABINA SALEEM	38
3	ACHU S	34
4	ADHISH S SOJAN	32
5	AISWARYA S	37
6	ANILA S	43
7	ANJALI R	42
8	APARNA P R	35
9	APARNA S MADHU	39
10	ARKAN C SEKHARAN	27
11	ARSHA RAJENDRAN	35
12	ASWATHI ANIL	29
13	AYSHA FARSANA R	43
14	DELLA ANTONY	45
15	GIOPIKA G NAIR	41
16	NIRANJAN S	29
17	SETHULEKSHMI KS	34
18	SREELEKSHMI M	35
19	SREELEKSHMI S	29
20	VIDYA SABU	37
21	ABHIJITH S	29
22	ABHIJITH S	32

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23	ABHILEKSHMI JS	42
24	ABHISHEK MP	41
25	ABHITHA BM	34
26	AKHIL SL	29
27	AMAL A	26
28	ANANDU S J	29
29	ANJU KRISHNA S	31
30	ARAVIND ANIL	39
31	ANJU KRISHNA S	29
32	ATHIRA R	42
33	B S GAYATHRI	45
34	GOKUL RAJ S	37
35	JAYAGHESH PRASAD S	43
36	MEGHA PRABHA D	26
37	MUHAMMED SAHID S	28
38	NANDHANA B S	29
39	RESHMA R	26
40	SOORAJ S	34
41	SREELEKSHM A	33
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Number of students enrolled:

43

Number of students completed:

41



Report of Activities.

The Department of Physics offer a certificate course on Python programming for the 3rd year degree students to for understanding the basics of a high level programming language. Because of its versatility and user friendly data structure, Python is a very popular language nowadays. The classes were 30hr duration and was conducted on working days after the normal class hours. The classes were also conducted on Saturdays. The students got both theory as well as practical hours. At the end of the course, students feedbacks were collected. The feedbacks showed that the course was very useful to them since Python Programming is a part of the Msc Physics course.

Feedback Analysis.

Feedback analysis showed that students are highly satisfied with the content of the course. Since Python is simple to understand and use, the course motivated them to use Python in different fields.



Smitha

Dr. Smitha S.L.

Sutheertha Dair

(Dr. Sutheertha S. Nair)

DEPARTMENT OF PHYSICS
M. N. S. S. C.

Sol
Principal
M.N.S.S. COLLEGE
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