

**SRI A.S.N.M GOVERNMENT COLLEGE (A),
PALAKOL, W.G.DT.**

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE IN COMPUTER SCIENCE

(2020-2021)

“Introduction to Python programming”

COURSE CO-ORDINATOR

K.BHADRACHALAM M.Tech., Lecturer In-Charge



CONTENTS

	Page No.
1. Circular	03
2. Minutes of the meeting	04
3. Report on Certificate course	05
4. Course Objectives	05
5. Course Outcomes of specific outcomes	05
6. Student Sample Feedback	
i. List of students enrolled & Attendance particulars	06-08
ii. Course Syllabus	09
iii. Multiple choice question paper & Key	10-14
iv. Marks Obtained, Other details	15
v. Conclusion & References & Photos	16
vi. Sample Certificate	17



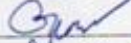
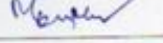
Circular

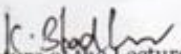
SRI A.S.N.M.Government College(A),Palakol
Department of Computer Science & Applications

CIRCULAR



Date:20-11-2021

The Department of Computer Science & Applications
Conduct a certificate course on "Introduction to Pythan Programming"
from 24-11-2021. All the Final year Non-computer students are join and
learn the computer skills .All the students are utilize this opportunity.
Interested students are give their names to Sri.K.bhadrachalam Lecturer in
Computer Science on or before 23-11-2021

SNo	Class	Signature
1	III B.A	
2	III B.COM(G)	
3	III BSC(MPC)	
4	III BSC(BZC)	


Signature of the Lecturer

Staff:

1. 
2. K. S. K.
3. 
- 4.
- 5.


PRINCIPAL
PRINCIPAL

Sri A.S.N.M. GOVT. COLLEGE (A)
PALAKOL-534 260, W.G.DIST.

Department of Computer Science & Applications-Certificate Course

Minutes of the meeting

The Department of **Computers** staff held meeting on 22-11-2021 and passed resolution to organize certificate course on trended technology i.e, Introduction to Python Programming under the guidelines of K. Bhadrachalam, Lecturer In-Charge in Computer Science for 30 working days.

The certificate course in **Introduction to Python Programming** was organized from 24-11-2021 to 28-12-2021 for the academic year 2020-2021 to the III B.Sc.MPCs students under curriculum enrichment programme.

Signature of the staff members:

K. Bhadrachalam, Lecturer In-Charge in Computers

K. Bhadrachalam
22/11/2021

Ch. Ravi Kumar, Contract lecturer in Computers

Ch. Ravi Kumar

Principal
22/11/2021

Signature of the principal

PRINCIPAL (A)

Sri A.S.N.M. GOVT. COLLEGE (A)

PALAKOL-534 280, W.G.DIST.

Report on Certificate Course in Introduction to Python Programming

Introduction

Department of Computers conducted a certificate course in Introduction to Python Programming during the academic year 2020-2021 under curriculum enrichment programme.

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

It is used for:

- web development (server-side), software development, mathematics, System scripting.

What can Python do?

- Python can be used on a server to create web applications.
- Python can be used alongside software to create workflows.
- Python can connect to database systems. It can also read and modify files.
- Python can be used to handle big data and perform complex mathematics.
- Python can be used for rapid prototyping, or for production-ready software development.

Course objectives:

- The course is designed to provide Basic knowledge of Python.
- To acquire programming skills in core Python.
- Python programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language.

Course outcomes of specific programme:

At the end of the course, the student will be able to

- Understand basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions.
- Explain basic principles of Python programming language.
- Problem solving and programming capability.

Student sample Feedback

SRI A.S.N.M GOVERNMENT COLLEGE (A), PALAKOL, W.G.Dt.

STUDENT FEEDBACK ON CERTIFICATE COURSE (2020-21) INTRODUCTION TO PYTHON PROGRAMMING

The Design of the Course

Were objectives of this course clear to you?

Y ☒ N ☐

S.No.	Strongly agree	Agree	Disagree	Strongly disagree
The course contents met with your expectations		✓		
The lecture sequence is well planned		✓		
The level of the course was		✓		
The course exposed to new knowledge and practices	✓			
Will you recommend this course to your colleagues?	✓			

Name of the Student: D. Mudda Siva

Class: 3rd B.Sc (M.P.CS) Regd.No. : 1922035

**List of students enrolled in Introduction to Python Programming:
III B.Sc.(MPCs)**

(24-11-2021 to 28-12-2021) 30 days from 5pm to 6 pm

S.N O.	Regd .no.	Name of the student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			24/ 11	25/ 11	26/ 11	27/1 1	29/ 11	30/ 11	30/ 11	1/ 12	2/ 12	3/ 12	6/ 12	7/ 12	8/ 12	10/ 12	13/ 12
1	1922030	B PADMA	p	p	p	p	p	A	A	P	A	P	P	P	A	P	P
2	1922032	B KIRAN KUMAR	P	A	P	A	A	P	P	A	P	P	A	A	P	P	P
3	1922033	CH ASHOK KUMAR	p	p	p	p	p	p	p	p	A	p	p	p	p	p	p
4	1922034	D SAI BABU	p	p	p	A	p	p	p	A	p	p	p	p	A	p	p
5	1922035	D MUDDU SIVA	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
6	1922036	G SURESH KUMAR	p	p	A	p	p	p	A	p	p	p	p	A	p	A	p
7	1922037	G KALYAN KUMAR	p	A	p	A	p	p	A	p	p	p	A	p	p	p	p
8	1922038	G DINESH BABU	p	A	p	p	A	p	p	A	p	p	p	p	A	p	p
9	1922040	K CHANDU	p	p	p	A	A	p	p	p	p	A	p	p	A	p	p
10	1922041	K SHALEM RAJU	p	A	p	p	A	A	p	p	p	A	p	p	p	A	p
11	1922042	K ISSAC	p	p	p	p	p	p	A	p	p	p	p	A	p	p	p
12	1922043	K BHARGAVI	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
13	1922045	M BALAJI PRAVEEN	p	A	p	p	p	p	p	A	p	p	p	A	p	p	p
14	1922047	P SYAM NARASIMHA	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
15	1922048	P L NARAYANA	p	A	p	A	p	p	p	p	p	p	A	p	p	p	p
16	1922049	P JAHNAVI	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
17	1922050	S RAJESH	p	p	A	p	p	p	A	p	p	p	A	p	p	p	p
18	1922053	V AMALA KUMARI	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p
19	1922054	V VAMSI KRISHNA	p	A	p	p	A	p	p	p	A	p	p	p	p	A	p
20	1922055	V K GANESH	p	p	p	p	p	p	p	A	p	p	p	p	p	p	p
21	1922056	V SHANMUKASAI	p	p	A	p	p	p	p	p	p	p	p	A	p	p	p
22	1922057	Y MUKESH	p	A	p	p	p	p	p	A	p	p	p	p	A	p	p

(Handwritten signatures in blue and green ink)

s.no.	Regd.no.	Name of the student	16 13/ 12	17 14/ 12	18 14/ 12	19 15/ 12	20 16/ 12	21 17/ 12	22 18/ 12	23 18/ 12	24 20/ 12	25 21/ 12	26 21/ 12	27 22/ 12	28 23/ 12	29 27/12
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19	1922054	V VAMSI KRISHNA	p	p	A	p	p	p	p	A	p	p	p	A	p	p
20	1922055	V K GANESH	p	p	A	p	p	p	p	p	p	p	A	p	p	p
21	1922056	V SHANMUKA SAI	p	p	p	A	p	p	p	p	p	A	p	p	p	p
22	1922057	Y MUKESH	p	p	A	p	p	p	p	p	p	p	A	p	p	p

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Course syllabus:

Module 1 - Python, Anaconda and relevant packages installations, Features of Python, Comparison with C, keywords and identifiers, comments, indentation and statements, variables and data types in python, standard input and output, operators.

Module 2 - Decision and Control flow Statements: if else, while loop, for loop, break and continue statements.

Module 3 - Data Structures: Lists-accessing and updating values in list, Tuples, Sets, Dictionary, Strings.

Module 4 - Functions: Introduction, types of functions, Function arguments, Recursive functions, Lambda functions,

Module 5 - Arrays and Numpy package-Creation, Importing, Processing Arrays, Types of Arrays, Arrays using numpy, Operations on Arrays, multi-dimensional arrays, matrices in numpy, example programs,

Multiple Choice Question Paper on Introduction to Python Programming.

Maximum Marks: 50 x 1 = 50.

1. Who developed Python Programming Language? (c)
 - a) Wick van Rossum
 - b) RasmusLerdorf
 - c) Guido van Rossum
 - d) NieneStom
2. Which type of Programming does Python support? (d)
 - a) object-oriented programming
 - b) structured programming
 - c) functional programming
 - d) all of the mentioned
3. Is Python case sensitive when dealing with identifiers? (a)
 - a) no
 - b) yes
 - c) machine dependent
 - d) none of the mentioned
4. Which of the following is the correct extension of the Python file? (c)
 - a) .python
 - b) .pl
 - c) .py
 - d) .p
5. Is Python code compiled or interpreted? (b)
 - a) Python code is both compiled and interpreted
 - b) Python code is neither compiled nor interpreted
 - c) Python code is only compiled
 - d) Python code is only interpreted
6. All keywords in Python are in _____ (d)
 - a) Capitalized
 - b) lower case

- c) UPPER CASE
- d) None of the mentioned

7. What will be the value of the following Python expression? (a)

4 + 3 % 5

- a) 7
 - b) 2
 - c) 4
 - d) 1
8. Which keyword is used for function in Python language? (b)
- a) Function
 - b) Def
 - c) Fun
 - d) Define
9. Which of the following character is used to give single-line comments in Python? (b)
- a) //
 - b) #
 - c) !
 - d) /*
10. Which of the following is the truncation division operator in Python? (b)
- a) |
 - b) //
 - c) /
 - d) %
11. Which of the following functions is a built-in function in python? (b)
- a) factorial()
 - b) print()
 - c) seed()
 - d) sqrt()
12. Which of the following is used to define a block of code in Python language?
- (a)
- a) Indentation

- b) Key
 - c) Brackets
 - d) All of the mentioned
13. Which of the following is not a core data type in Python programming? (c)
- a) Tuples
 - b) Lists
 - c) Class
 - d) Dictionary
14. Is Python case sensitive when dealing with identifiers? (a)
- a) yes
 - b) no
 - c) machine dependent
 - d) none of the mention
15. What is the maximum possible length of an identifier? (d)
- a) 31 characters
 - b) 63 characters
 - c) 79 characters
 - d) none of the mentioned
16. Which of the following is invalid? (d)
- a) `_a = 1`
 - b) `__a = 1`
 - c) `__str__ = 1`
 - d) none of the mentioned
17. Which of the following is an invalid variable? (b)
- a) `my_string_1`
 - b) `1st_string`
 - c) `foo`
 - d) `_`
18. Which of the following is not a keyword? (a)
- a) `eval`
 - b) `assert`

c) nonlocal

d) pass

19. Which of the following is an invalid statement? (b)

a) `abc = 1,000,000`

b) `a b c = 1000 2000 3000`

c) `a,b,c = 1000, 2000, 3000`

d) `a_b_c = 1,000,000`

20. Which of the following cannot be a variable? (b)

a) `__init__`

b) `in`

c) `it`

d) `on`

21. Which is the correct operator for power(x^y)? (b)

a) `X^y`

b) `X**y`

c) `X^^y`

d) None of the mentioned

22. What is the answer to this expression, `22 % 3` is? (b)

a) 7

b) 1

c) 0

d) 5

23. Mathematical operations can be performed on a string. (b)

a) True

b) False

24. Operators with the same precedence are evaluated in which manner? (a)

a) Left to Right

b) Right to Left

c) Can't say

d) None of the mentioned

25. What is the output of this expression, `3*1**3`? (c)

a) 27

- b) 9
- c) 3
- d) 1

26. The expression `Int(x)` implies that the variable `x` is converted to integer. (a)
- a) True
 - b) False
27. Which one of the following has the highest precedence in the expression? (d)
- a) Exponential
 - b) Addition
 - c) Multiplication
 - d) Parentheses
28. What is the output of `print 0.1 + 0.2 == 0.3`? (b)
- a) True
 - b) False
 - c) Machine dependent
 - d) Error
29. What is the type of `inf`? (c)
- a) Boolean
 - b) Integer
 - c) Float
 - d) Complex
30. What does `3 ^ 4` evaluate to? (d)
- a) 81
 - b) 12
 - c) 0.75
 - d) 7

MARKS OBTAINED IN INTRODUCTION TO PYTHON PROGRAMMING

S.NO.	REGD NO.	NAME OF THE STUDENT	MARKS Obtained
1	1922030	B PADMA	24
2	1922032	B KIRAN KUMAR	22
3	1922033	CH ASHOK KUMAR	24
4	1922034	D SAI BABU	23
5	1922035	D MUDDU SIVA	26
6	1922036	G SURESH KUMAR	22
7	1922037	G KALYAN KUMAR	22
8	1922038	G DINESH BABU	21
9	1922040	K CHANDU	20
10	1922041	K SHALEM RAJU	20
11	1922042	K ISSAC	20
12	1922043	K BHARGAVI	25
13	1922045	M BALAJI PRAVEEN	23
14	1922047	P SYAM NARASIMHA	19
15	1922048	P L NARAYANA	21
16	1922049	P JAHNAVI	24
17	1922050	S RAJESH	20
18	1922053	V AMALA KUMARI	25
19	1922054	V VAMSI KRISHNA	19
20	1922055	V K GANESH	18
21	1922056	V SHANMUKASAI	18
22	1922057	Y MUKESH	19

Other Details: 30 hrs

Class Timings: 5pm to 6pm

Period of Course: 24-11-2021 to 28-12-2021



Conclusion: This certificate course mainly carried out to develop basic level programming, logic implementation for various formulas in mathematics and other.

Reference: Python programming by yashavantkanetkar

Certificate Issued:





Model certificate:

 **Sri A.S.N.M. Govt. College (A),**
PALAKOL, West Godavari Dist. 

DEPARTMENT OF COMPUTER SCIENCE

This is to Certify that Mr./Ms. D. MUDDU SIVA
of III B.Sc.(MPCS) Programme has successfully completed the Certificate
Course in INTRODUCTION TO PYTHON PROGRAMMING
during the year 2020 - 21


Course Coordinator


Principal