Course Coordinator Report

Course Name: Introduction to Python Programming

A free Add-On Course for UG students in the Department of Computer Science, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur, was held from 2 Aug 2019 to 5 Oct 2019. The course title was "Introduction to Python Programming". This comprehensive beginner to expert course was perfect for anyone who wanted to learn Python programming or enhance their existing skills. Python is one of the most popular programming languages, known for its simplicity and versatility, making it an excellent choice for beginners and experienced programmers alike. This course provided the foundation for developing robust and efficient Python applications.

In this course, students learned everything about Python programming, including setting up the development environment, understanding Python syntax, and building simple to complex applications. It was packed full of challenges and exercises to get students writing Python code quickly. The course provided all the necessary tools and knowledge for students to start with Python development. This course was ideal for students interested in the field of software development, data science, web development, and automation, providing a solid foundation for creating solutions across various domains and industries.

At the end of this course, students had the skills and knowledge to develop their own Python applications and were on the path to acquiring more advanced programming skills. The course duration was 10 weeks (30 hours). Two theory classes were conducted on Friday and Saturday, and one practical session was held every week. The marking system consisted of 60 marks for the theory paper and 40 marks for practical execution. The theory examination consisted of an MCQ paper with 30 questions, each with four multiple choices. The practical examination was also conducted for 40 marks. All 56 students were present in both the theory and practical examinations. The results were prepared, and certificates were distributed to the students.

Ms. Puja M. Dadhe
Course Co-ordinator

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

To,
The Principal
SSES Amt's Science College,
Congress Nagar, Nagpur-12

Subject: For permission to conduct the add on courses in the Department Of Computer Science during 2019-2020

Respected Sir,

This is to request you that, the teachers of our Computer Science department have prepared the syllabus and modules of the 30 hours certificate courses for the session 2019-2020.

The details of the course module, syllabus and time table is submitted here with.

Hence please permit to run the add on courses and oblige me

Thanking you

Yours sincerely

Date :- 21/06/2019

Professor & Head
Department of Computer Science
S S E S Amt s Science College
Congress Nagar Nagpur

Permitted

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR.

DEPARTMENT OF COMPUTER SCIENCE

NOTICE

Date: 20-July-2019

We are pleased to announce that the Department of Computer Science is offering a Certificate Course on Python Programming for all BCA Students free of cost starting from first week of September.

Course Highlights:
- Introduction to Python
- Data Structures and Algorithms
- Object-Oriented Programming
- Web Development with Python
- Data Science and Machine Learning Basics

Course Duration: 10 Weeks (30 Hours)

Eligibility: Open to all students of BCA, Shri Shivaji Education Society Amravati's Science College

Registration: Interested students can register at the Department of Computer Science office on or before **31-July-2019.**
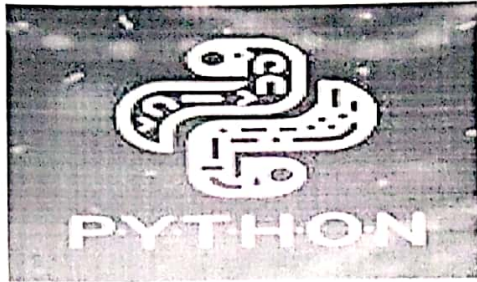
Contact Information:
For further details, please contact:

Ms. Puja M. Dadhe
Course Coordinator
Phone: 7276266004

Assistant Professor
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CERTIFICATE COURSE IN PYTHON PROGRAMMING

Free Certificate Course for College Students

Session : 2019-20

Duration - 30 Hours (10 Weeks)

Process of Registration- First Come First Served (Limited Seats)

Course Objectives:

- Learn Syntax and Semantics and Create Functions in Python.
- Handle Strings and Files in Python.
- Understand Lists, Dictionaries and Regular expressions in Python.
- Implement Object Oriented Programming concepts in Python.
- Build Web Services and introduction to Network and

Department of Computer Science SSES Amt's Science College, Congress Nagar, Nagpur

PYTHON PROGRAMMING is an essential part of any Computer-Science education. To master the fundamentals of writing Python scripts, learn core Python scripting elements such as variables and flow control structures, discover how to work with lists and sequence data, write Python functions to facilitate code reuse , use Python to read and write files, make their code robust by handling errors and exceptions properly, work with the Python standard library, explore Python's object-oriented features , search text using regular expressions and finally working with GUI (Graphical User Interfaces)

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Congress Nagar, Nagpur

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DEPARTMENT OF COMPUTER SCIENCE

COURSE MODULE AND SYLLABUS

Session 2019-2020

Course Title: Certificate Course in Python Programming

Course Coordinator: Ms. Puja M. Dadhe

Course description: Python Programming is intended for students, systems analysts, program managers and user support personnel who wish to learn the Python programming language. This Python for beginners training course leads the students from the basics of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with binary data, and using the extensive functionality of Python modules. Extra emphasis is placed on features unique to Python, such as tuples, array slices, and output formatting. This course PYTHON PROGRAMMING is an essential part of any Computer-Science education. To master the fundamentals of writing Python scripts, learn core Python scripting elements such as variables and flow control structures, discover how to work with lists and sequence data, write Python functions to facilitate code reuse ,use Python to read and write files, make their code robust by handling errors and exceptions properly, work with the Python standard library, explore Python's object-oriented features , search text using regular expressions and finally working with GUI (Graphical User Interfaces)

Course Objectives:

1. Learn Syntax and Semantics and create Functions in Python.
2. Handle Strings and Files in Python.
3. Understand Lists, Dictionaries and Regular expressions in Python.
4. Implement Object Oriented Programming concepts in Python.
5. Build Web Services and introduction to Network and Database Programming in Python.

Instructional Strategies: Theory class, Practical, Video clips.

Evaluation Strategies: Oral discussions and Final MCQ examination.

Course outline: Course Outlines: (Relevance)
1. **Introduction to Python:** Basics of Python, setting up the environment, syntax, and simple programs.
2. **Data Types and Structures:** Variables, strings, lists, tuples, dictionaries, and sets.
3. **Control Flow:** Conditional statements, loops, and comprehensions.
4. **Functions and Modules:** Defining functions, scope, built-in functions, and importing modules.
5. **Object-Oriented Programming:** Classes, objects, inheritance, and polymorphism.
6. **Advanced Topics:** File handling, exceptions, libraries (e.g., NumPy, Pandas), and basic web scraping.
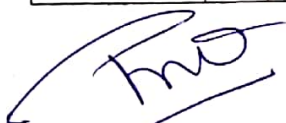
Course Outcomes (COs):

1. Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
2. Demonstrate proficiency in handling Strings and File Systems.
3. Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.
4. Interpret the concepts of Object-Oriented Programming as used in Python.
5. Implement exemplary applications related to Network Programming, Web Services and Databases in Python.

Duration of course: Ten weeks (30 Hours)

The Structure of Syllabus and System of evaluation -

Course	Theory Papers and Practical	Total Marks	
		Theory	Practical
Certificate Course in Python Programming	Theory paper- Python Programming * Theory examination will be of MCQ pattern having 30 questions each with equal marks.	60	40
	* Practical examination will be based on folder and performance evaluation in the laboratory	100	

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Congress Nagar, Nagpur

SYLLABUS
Certificate course (10 weeks)
Theory

UNIT-I

Python Basics, Objects- Python Objects, Standard Types, Other Built-in Types, Internal Types, Standard Type Operators, Standard Type Built-in Functions, Categorizing the Standard Types, Unsupported Types Numbers - Introduction to Numbers, Integers, Floating Point Real Numbers, Complex Numbers, Operators, Built-in Functions, Related Modules Sequences - Strings, Lists, and Tuples, Mapping and Set Types

UNIT-II

FILES: File Objects, File Built-in Function [open()], File Built-in Methods, File Built-in Attributes, Standard Files, Command-line Arguments, File System, File Execution, Persistent Storage Modules, Related Modules Exceptions: Exceptions in Python, Detecting and Handling Exceptions, Context Management, Exceptions as Strings, Raising Exceptions, Assertions, Standard Exceptions, *Creating Exceptions, Why Exceptions (Now)?, Why Exceptions at All?,

Exceptions and the sys Module, Related Modules: Modules and Files, Namespaces, Importing Modules, Importing Module Attributes, Module Built-in Functions, Packages, Other Features of Modules

UNIT-III
GUI Programming: Introduction, Tkinter and Python Programming, Brief Tour of Other GUIs, Related Modules and Other GUIs WEB Programming: Introduction, Wed Surfing with Python, Creating Simple Web Clients, Advanced Web Clients, CGI-Helping Servers Process Client Data, Building CGI Application Advanced CGI, Web (HTTP) Servers.

Practicals

1. Hello World and User Input: Write a program that prints "Hello, World!" and takes user input to display a personalized greeting.
2. Basic Arithmetic Operations: Create a calculator program that performs addition, subtraction, multiplication, and division based on user input.
3. List Operations: Write a program to create a list of numbers, find the sum, average, and sort the list.
4. String Manipulation: Develop a program to count the number of vowels in a given string and reverse the string.
5. Simple Banking System: Implement a simple banking system where users can check their balance, deposit, and withdraw money.
6. File Handling: Create a program to read from a file, count the number of words, and write the results to a new file.
7. Dictionary Operations: Write a program to create a dictionary from user input, allowing the addition, deletion, and lookup of keys.
8. Function Practice: Develop a program that includes a function to check if a given number is prime and another function to generate Fibonacci series up to a given number.
9. Basic OOP: Implement a class for a simple library system where books can be added, borrowed, and returned.
10. Web Scraping: Write a program using the `requests` and `BeautifulSoup` libraries to scrape data from a website and display specific information, like headlines from a news site.

Week-wise teaching plan:

Week	Hrs.	Syllabus
Week 1	1	Python Basics, Objects Python Objects, Standard Types,
	1	Numbers - Introduction to Numbers
	1	Operators, Built-in Functions, Related Modules Sequences
Week 2	1	Strings, Lists, and Tuples, Mapping and Set Types
	2	FILES: File Objects, File Built-in Function
Week 3	1	Exceptions: Exceptions in Python
	2	File Built-in Attributes, Standard Files, Command-line Arguments
Week 4	1	File System, File Execution, Persistent Storage Modules
	1	Modules and Files, Namespaces
Week 5	2	Module Built-in Functions, Importing Modules
	1	Packages, Other Features of Modules
Week 6	2	GUI Programming: Introduction,
	1	Web applications tour.
Week 7	2	Tkinter and Python Programming,
	1	Brief Tour of Other GUIs
Week 8	2	WEB Programming
	1	Related Modules and Other GUIs
Week 9	2	Introduction, Wed Surfing with Python,
	1	Creating Simple Web Clients
Week 10	1	Advanced Web Clients, CGI-Helping Servers Process Client Data
	2	Building CGI Application Advanced CGI, Web (HTTP) Servers.

SSES AMT'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR-12

Certificate Course in PYTHON PROGRAMMING
SESSION 2019-2020

Time Table

Day	Theory
Friday	PMD (B9) Theory 4:30 PM – 5:30 PM
Saturday	PMD(BCA LAB) practical, 4.00 PM – 5.00 PM
	PMD (B9) Theory, 5:00 PM –6:00 PM

Assistant Professor
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S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

Course :- ADD ON.

Name :- Python Programming

Sr.No.	Student Name	Signature.
1)	Akash V. Panday	A Panday
2)	Mayur R. Khairkar	M. Khairkar
3)	AYUSH A. JAISWAL	A. Jaiswal.
4)	Harsh . Gour	H Gour
5)	Krunal X. Ninave	Kunal
6)	Anshul A. Bhange.	AB.
7)	Dilip S. Verma	A verma.
8)	Arpit D. Mote.	Amot.
9)	Darpan D. Gedam	D. Gedam
10)	AKSHAY R. Khobragagade.	AK
11)	Durgeshkumar T. Kolhe.	D. Kolhe.
12)	Gaurav K. Tiwari	Tiwari
13)	Harshal H. Parshuramkar	H.P.
14)	Balkisan N. Paliwal	B Paliwal.
15)	Leeladhar A. Banothe.	L. Banothe.
16)	Mayank A. Banja.	M Banja
17)	Harshal K. Dhandre.	H Dhandre.
18)	Amay. C. Andraskar	A Andraskar
19)	Ashish P. Mehar	A. Mehar
20)	Akshay R. Khobragade.	Khobragade.
21)	Ritik S. Undirwade.	R. undirwade.
22)	Nihar R. Nayak.	N Nayak
23)	Pranay S. Thakre.	P. Dhakre.
24)	Pankaj J. Patle.	P. Patle.
25)	pritam P. Das	Das

No.	Name	Signature
26)	Nageshwar S. Dahare.	N. Dahare.
27)	Rahul S. Borkar	R. Borkar
28)	Prajwal D. Ambbade.	P.Dambbade.
29)	Nikhil S. Sawani	N.Sawani
30)	Piyush S. Chauhan	P. Chauhan
31)	Prathamesh D. Atkar	P.Atkar
32)	Purushottam B. Pineshwar.	P.B.P.
33)	Nishant S. Tapre.	S.Tapre.
34)	Ritesh G. Wagh.	Ritesh.
35)	Pranay G. Badkhal	Budkhal
36)	Nirmal J. Kamble.	Kamble
37)	Prasad R. Tale.	tale.
38)	Navin S. Dhakite.	Navin
39)	Pratik N. Gunmole.	Pratik
40)	Ranjeet A. Karmakar	A.Karmakar
41)	Pranit R. Vincharkar.	Pranit
42)	Purushottam T. Thakre	P.Thakre.
43)	Nimish D. Shrimankar	N.Shrimankar
44)	Piyush R. Nakshe.	Piyush
45)	Yash K. Bade.	Y.Bade.
46)	Rohan K. Patinge.	R.Patinge.
47)	Sonu S. Zade.	zade.
48)	Shubham N. Mokaddam	S.Mokaddam
49)	Tanmay N. Mane.	T.Mane.
50)	Saurabh R. Patil	Saurabh
51)	S. Purushottamprasad Diyandi	Diy.
52)	Shubhanshu M. Sane.	Sane
53)	Suyog M. Karemore.	Suyog.
54)	Utkarsh P. Pathak.	Utk.
55)	V. Surya P. V. Niramal	V. nirmal.
56)	Yash D. Nikhare.	Yash.

Assistant Professor
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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.

Certified Course In Python Programming
2019-20
Student Registration List

Sr. No.	Name Of Student
1	Akash Vikas Panday
2	Akshay Rajesh Khobragade
3	Akshit Avinash Khobragade
4	Anshul Anand Bhange
5	Arnav C. Andraskar
6	Arpit Deepak Mote
7	Ashish Pravin Mehar
8	Ayush Arun Jaiswal
9	Balkisan Nareshji Paliwal
10	Darpan Dipak Gedam
11	Dilip Sabhajeet Verma
12	Durgeshkumar T. Kolhe
13	Gaurav Krupashankar Tiwari
14	Harsh . Gour
15	Harshal H. Parshuramkar
16	Harshal Kalidas Dhandre
17	Krunal Vijay Ninave
18	Leeladhar A. Banothe
19	Mayank Anupam Barla
20	Mayur Rameshwar Khairkar
21	Mihir Ravindra Nayak
22	Mrinal Jagdish Kamble
23	Nageshwar Sawji Dahare
24	Navin Shridhar Dhakite
25	Nikhil Satish Saujani
26	Nimish Deepak Shrimankar
27	Nishant Subhash Tapre
28	Pankaj Jiyalal Patle
29	Piyush Rajesh Nakshe
30	Piyush Singh J. Chawhan
31	Prajwal Anil Ambade
32	Pranay Gajanan Badkhal
33	Pranay Sushil Thakre
34	Pranit Ravindra Vinchurkar

35	Prasad Ramrao Tale
36	Prathamesh Dashrath Atkar
37	Pratik Naresh Gurnule
38	Pritam Pavitra Das
39	Purushottam B Dineshwar
40	Purushottam Tukadu Thakre
41	Rahul Sudhir Borkar
42	Ranjeet Arabindu Karmakar
43	Ritesh Gajanan Wagh
44	Ritik Sudhir Undirwade
45	Rohan Kishor Patinge
46	Saurabh Raju Patil
47	Shubham Narayan Mokaddam
48	S. Purushottamprasad Diyundi
49	Shubhanshu Manoj Sane
50	Sonu Suryabhan Zade
51	Suyog Madhukar Karemore
52	Tanmay Manoj Mane
53	Utkarsh Pravin Pathak
54	V Surya Prakash V Nirmal
55	Yash Dattaram Nikhare
56	Yash Krishnarao Bade

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Congress Nagar, Nagpur

Python Programming (Certified Course)
Theory+Practical

Shri Shivaji Education Society Amravati's
Science College, Nagpur
Attendance Sheet

Name of the Teacher: Ms. Puja M. Dadhe
Session : 2019-20

S.N.	Name of Students	02-8	03-8	03-08	09-08	10-08	10-08	16-08	17-08	17-08	23-08	24-08	24-08	30-08	31-08	6-09	7-09	7-09	13-09	14-09	14-09	20-09	21-09	21-09	27-09	28-09	28-09	4-p	4-10	5-10	5-10
1	Akash Vikas Panday	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
2	Akshay Rajesh Khobragade	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	Akshit Avinash Khobragade	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	Anshul Anand Bhange	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
5	Arnav C. Andraskar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Arpit Deepak Mote	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
7	Ashish Pravin Mehar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	Ayush Arun Jaiswal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Balkisan Nareshji Paliwal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	Darpan Dipak Gedam	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Dilip Sabhajeet Verma	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Durgeshkumar T. Kolhe	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	Gaurav Krupashankar Tiwari	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
14	Harsh . Gour	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
15	Harshal H. Parshuramkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	Harshal Kalidas Dhandre	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	Krunal Vijay Ninave	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
18	Leeladhar A. Banothe	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	Mayank Anupam Barla	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
20	Mayur Rameshwar Khairkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	Mihir Ravindra Nayak	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	Mrinal Jagdish Kamble	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	Nageshwar Sawji Dahare	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	Navin Shridhar Dhakte	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	Nikhil Satish Saujani	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	Nimish Deepak Shrimankar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	Nishant Subhash Tapre	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	Pankaj Jiyalal Patle	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	Piyush Rajesh Nakshe	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	Piyush Singh J. Chawhan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	Prajwal Anil Ambade	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	Pranay Gajanan Badkhal	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	Pranay Sushil Thakre	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

No.	Name
34	Pranit Ravindra Vinchurkar
35	Prasad Ramrao Tale
36	Prathamesh Dashrath Atkar
37	Pratik Naresh Gurnule
38	Pritam Pavitra Das
39	Purushottam B Dineshwar
40	Purushottam Tukadu Thakre
41	Rahul Sudhir Borkar
42	Ranjeet Arabindu Karmakar
43	Ritesh Gajanan Wagh
44	Ritik Sudhir Undirwade
45	Rohan Kishor Patinge
46	Saurabh Raju Patil
47	Shubham Narayan Mokaddam
48	S. Purushottamprasad Diyundi
49	Shubhanshu Manoj Sane
50	Sonu Suryabhan Zade
51	Suyog Madhukar Karemore
52	Tanmay Manoj Mane
53	Utkarsh Pravin Pathak
54	V Surya Prakash V Nirmal
55	Yash Dattaram Nikhare
56	Yash Krishnarao Bade

(Attendance grid: each name marked "P" across the attendance columns.)

Teacher Co-coordinator

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College,
Congress Nagar, Nagpur

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

Certified Course on **Python Programming**

Announcement of Theory and Practical Examination Dates for Python Programming Certificate Course

NOTICE

Date: 21-Oct-2019

This is to inform all students enrolled in the Certificate Course on Python Programming that the dates for the Theory and Practical Examinations have been scheduled as follows:

Theory Examination:

- Date: **25-Oct-2019**

- Time: 04:00 pm

- Venue: Room No B9

Practical Examination:

- Date: **26-Oct-2019**

- Time: 04:00 pm

- Venue: BCA Lab, 3rd Floor

All students are required to be present at the examination venue at least 15 minutes before the scheduled time. Please ensure you bring your college ID card and any other necessary materials.

For any further queries, please contact the Department of Computer Science office.

Ms. Puja M. Dadhe

Course Coordinator

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.

Certified Course In Python Programming
Test Examination 2019-20
Attendance Sheet

Sr. No.	Roll no.	Name Of Student	Signature (Theory) Date: 25-10-2019	Signature(Practical) Date: 26-10-2019
1	1001	Akash Vikas Panday	Apanday	Apanday
2	1002	Akshay Rajesh Khobragade	Akhobragade.	Akhobragade.
3	1003	Akshit Avinash Khobragade	AK.	AK.
4	1004	Anshul Anand Bhange	AB.	AB
5	1005	Arnav C. Andraskar	AAndraskar	AAndraskar.
6	1006	Arpit Deepak Mote	Amote	Amote.
7	1007	Ashish Pravin Mehar	Amehar	Amehar
8	1008	Ayush Arun Jaiswal	A.Jaiswal	A.Jaiswal
9	1009	Balkisan Nareshji Paliwal	Bpaliwal	Bpaliwal.
10	1010	Darpan Dipak Gedam	D.Gedam	P.Gedam
11	1011	Dilip Sabhajeet Verma	Dverma	Dverma.
12	1012	Durgeshkumar T. Kolhe	Kolhe	Kolhe.
13	1013	Gaurav Krupashankar Tiwari	Tiwari	Tiwari
14	1014	Harsh . Gour	Hour	Hour.
15	1015	Harshal H. Parshuramkar	HP	HP
16	1016	Harshal Kalidas Dhandre	HDhandre.	HDhandre.
17	1017	Krunal Vijay Ninave	krunal	krunal
18	1018	Leeladhar A. Banothe	L.Banothe	L.Banothe.
19	1019	Mayank Anupam Barla	M.Barla	M Barla.
20	1020	Mayur Rameshwar Khairkar	M.Khairkar	M.Khairkar.

21	1021	Mihir Ravindra Nayak	M.Nayk	M.Nayak.
22	1022	Mrinal Jagdish Kamble	Kamble	Kamble
23	1023	Nageshwar Sawji Dahare	N.Dahare	N.Dahare
24	1024	Navin Shridhar Dhakite	Navin	Navin
25	1025	Nikhil Satish Saujani	NSaujanj	NSaujani
26	1026	Nimish Deepak Shrimankar	N.Shrimankar.	N.Shrimankar.
27	1027	Nishant Subhash Tapre	NTapre.	NTapre.
28	1028	Pankaj Jiyalal Patle	P.Patle	P.Patle.
29	1029	Piyush Rajesh Nakshe	Piyush	Piyush
30	1030	Piyush Singh J. Chawhan	P.Chawhan	P.Chawan.
31	1031	Prajwal Anil Ambade	P.Ambade.	P.Ambade.
32	1032	Pranay Gajanan Badkhal	Badkhal	Badkhal
33	1033	Pranay Sushil Thakre	P.Thakre	P.Thakre.
34	1034	Pranit Ravindra Vinchurkar	Pranit	Pranit
35	1035	Prasad Ramrao Tale	tale.	tale.
36	1036	Prathamesh Dashrath Atkar	P.Atkar	P.Atkar
37	1037	Pratik Naresh Gurnule	Pratik	Pratik
38	1038	Pritam Pavitra Das	Pos	Pos
39	1039	Purushottam B Dineshwar	PBD	PBD
40	1040	Purushottam Tukadu Thakre	P.Thakre	P.Thakre.
41	1041	Rahul Sudhir Borkar	R.Borkar	R.Borkar.
42	1042	Ranjeet Arabindu Karmakar	R.Karmakar	R.Karmakar
43	1043	Ritesh Gajanan Wagh	Ritesh.	Ritesh.
44	1044	Ritik Sudhir Undirwade	R.undirwade.	R.Undirwade.

Assistant Professor
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45	1045	Rohan Kishor Patinge	Rpatinge.	Rpatinge.
46	1046	Saurabh Raju Patil	Saurabh	Saurabh
47	1047	Shubham Narayan Mokaddam	S.Mokaddam	S.Mokaddam
48	1048	S. Purushottamprasad Diyundi	Diy.	Diy.
49	1049	Shubhanshu Manoj Sane	Sane	Sane
50	1050	Sonu Suryabhan Zade	Zade	Zade
51	1051	Suyog Madhukar Karemore	Suyog	Suyg
52	1052	Tanmay Manoj Mane	T.mane.	T.mane
53	1053	Utkarsh Pravin Pathak	UHK.	UHK.
54	1054	V Surya Prakash V Nirmal	V.Nirmal	V.Nirmal
55	1055	Yash Dattaram Nikhare	Yash	Yash
56	1056	Yash Krishnarao Bade	Y.Bade	Y.Bade

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College
Congress Nagar, Nagpur

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF COMPUTER SCIENCE

Final Examination
Session 2019-2020
Certificate Course in Python Programming

Maximum Marks: 60

Students Name: _____

Roll No:_____ Date: _____ Time: 1 HOUR

Name and Signature of Invigilator:_____

Note: 1. All Questions are compulsory and carry equal marks.
2. Tick single Correct option only.

1. What Will Be The Output Of The Following Code Snippet?
a=[1,2,3,4,5,6,7,8,9]
print(a[::2])
A. [1,2]   B. [8,9]   C. [1,3,5,7,9]   D. [1,2,3]

2. Which Of The Following Items Are Present In The FunctionHeader?
A. function name   B. function name and parameter list
C. parameter list   D. return value

3. What Will Be The Output Of The Following CodeSnippet?
a=[1,2,3,4,5]
print(a[3:0:-1])
A.Syntax error .   B. [4, 3,2]
C.[4,3]   D. [4, 3, 2,1]

4. Which module in Python supports regular expressions?
A) re   B) regex
C) pyregex   D) none of the mentioned

5, Which of the following creates a pattern object?
A) re.create(str)   B) re.regex(str)
C) re.compile(str)   D) re.assemble(str)

6. What does the function re.match do?
A) matches a pattern at the start of the string   B) matches a pattern at any position in the
string
C) such a function does not exist   D) none of the mentioned

7. How do you create awindow??
A) window = newWindow()   B) window = Window()
C) window=Frame()   D) window =Tk()

8. How do you create aframe?
A) frame=newWindow()   B) frame = Window()
C) frame=Frame()   D) frame = Tk()

9. How do you create an eventloop??
A) window.loop()   B) window.main()
C) window.mainloop()   D) window.eventloop()

10. How do you create a canvas under parent frame1 with background color white and foreground color green?
A) Canvas(frame1, bg = "white", fg ="green")
B) Canvas(frame1, bg = "white", fg = "green", command =processEvent)
C) Canvas(frame1, bg = "white", command =processEvent)
D) Canvas(frame1, fg = "green", command =processEvent)

11. To display an error dialog named "Variable is not assigned",use
A) tkinter.messagebox.showinfo("showinfo", "Variable is notassigned")
B) tkinter.messagebox.showwarning("showwarning", "Variable is notassigned")
C) tkinter.messagebox.showerror("showerror", "Variable is notassigned")
D) tkinter.messagebox.askyesno("ashyesno", "Variable is notassigned")

12. Which method of cursor class is used to get the number of rows affected after any of the insert/update/delete database operation executed from Python
A) cursor.rowcount   B) cursor.getaffectedcount   C) cursor.rowscount

13. Which method is used to commit pending transaction to the database in Python?
A) connection.commit()   B) cursor.commit()
C) Both   D) None

14. Mandatory arguments required to connect any database from Python
A) Username, Password, Hostname, Database Name, Port.
B) Username, Password, Hostname
C) Username, Password, Hostname, Database Name
D) None

15. Exception raised when the relational integrity of the database is affected in Python
A) IntegrityFailError   B) IntegrityError
C) IntegrityViolationError   D) None

16. What is the correct way to create a string in Python?
A)`str = 'Hello'`
B)`str = Hello`
C)`str = "Hello"`
D)Both a and c

17. Which of the following is a mutable data type in Python?

A)String
B)Tuple
C)List
D)None of the above

18. What is the result of `3 + 2.0` in Python?
A)5
B)5.0
C)32.0
D)TypeError

19. How do you create a dictionary in Python?
A)`dict = {}`
B)`dict = []`
C)`dict = ()`
D)`dict = {key1: value1, key2: value2}`

20. Which of the following is not a standard type in Python?
A)Integer
B)Float
C)Double
D)Dictionary

21. What is the output of `type(3.14)` in Python?
A)`<class 'int'>`
B)`<class 'float'>`
C)`<class 'double'>`
D)`<class 'number'>`

22. Which function converts a string to an integer in Python?
A)`int()`
B)`str()`
C)`float()`
D)`convert()`

23 What is the correct way to create a tuple in Python?
A)`tup = []`
B)`tup = ()`
C)`tup = {}`
D)`tup = (1, 2, 3)`

24. Which operator is used for exponentiation in Python?
A)`^`
B)``
C)`*`
D)`%`

25. What is the output of `len([1, 2, 3, 4])`?
A)3
B)4

C)5
D)1

26. How do you check the type of an object in Python?
A)`check()`
B)`type()`
C)`isinstance()`
D)`objtype()`

27. Which of the following is not a built-in function in Python?
A)`len()` .
B)`str()`
C)`sort()`
D)`append()`

28. What is the purpose of the `pass` statement in Python?
A)It is used to pass control to the next block of code.
B)It is a null statement that does nothing.
C)It is used to exit a loop or function.
D)It is used to handle exceptions.

29. How do you create a set in Python?
A)`set = {}`
B)`set = []`
C)`set = {1, 2, 3}`
D)`set = (1, 2, 3)`

30. Which function is used to find the maximum value in a list?
A)`max()`
B)`min()`
C)`largest()`
D)`greatest()`

SSES Amravati's Science College, Congress Nagar, Nagpur-12
DEPARTMENT OF COMPUTER SCIENCE
Session 2019-2020
Certificate Course
Examination

Course Name: Python Programming

Time: 60 Minutes]   [Max. Marks: 40

Practical Exam Slip

1. Hello World and User Input: Write a program that prints "Hello, World!" and takes user input to display a personalized greeting.

2. Basic Arithmetic Operations: Create a calculator program that performs addition, subtraction, multiplication, and division based on user input.

3. List Operations: Write a program to create a list of numbers, find the sum, average, and sort the list.

4. String Manipulation: Develop a program to count the number of vowels in a given string and reverse the string.

5. Simple Banking System: Implement a simple banking system where users can check their balance, deposit, and withdraw money.

6. File Handling: Create a program to read from a file, count the number of words, and write the results to a new file.

7. Dictionary Operations: Write a program to create a dictionary from user input, allowing the addition, deletion, and lookup of keys.

8. Function Practice: Develop a program that includes a function to check if a given number is prime and another function to generate Fibonacci series up to a given number.

9. Basic OOP: Implement a class for a simple library system where books can be added, borrowed, and returned.

10. Web Scraping: Write a program using the `requests` and `BeautifulSoup` libraries to scrape data from a website and display specific information, like headlines from a news site.

Assistant Professor
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Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur.

Certified Course In Python Programming
2019-20
Final Result

Date: 1 . Nov . 2019

Sr. No.	Roll no.	Name Of Student	Theory (out of 60)	Practical (out of 40)	Total 100	Grade
1	1001	Akash Vikas Panday	38	34	72	B+
2	1002	Akshay Rajesh Khobragade	34	37	71	B+
3	1003	Akshit Avinash Khobragade	38	29	67	B
4	1004	Anshul Anand Bhange	50	34	84	A
5	1005	Arnav C. Andraskar	38	32	70	B+
6	1006	Arpit Deepak Mote	40	31	71	B+
7	1007	Ashish Pravin Mehar	36	30	66	B
8	1008	Ayush Arun Jaiswal	30	37	67	B
9	1009	Balkisan Nareshji Paliwal	50	33	83	A
10	1010	Darpan Dipak Gedam	44	31	75	B+
11	1011	Dilip Sabhajeet Verma	46	29	75	B+
12	1012	Durgeshkumar T. Kolhe	48	37	85	A
13	1013	Gaurav Krupashankar Tiwari	46	35	81	A
14	1014	Harsh . Gour	50	36	86	A
15	1015	Harshal H. Parshuramkar	46	36	82	A
16	1016	Harshal Kalidas Dhandre	30	31	61	B
17	1017	Krunal Vijay Ninave	40	34	74	B+
18	1018	Leeladhar A. Banothe	40	31	71	B+
19	1019	Mayank Anupam Barla	44	33	77	B+
20	1020	Mayur Rameshwar Khairkar	48	29	77	B+

21	1021	Mihir Ravindra Nayak	38	35	73	B+
22	1022	Mrinal Jagdish Kamble	50	34	84	A
23	1023	Nageshwar Sawji Dahare	42	32	74	B+
24	1024	Navin Shridhar Dhakite	48	37	85	A
25	1025	Nikhil Satish Saujani	32	33	65	B
26	1026	Nimish Deepak Shrimankar	50	30	80	A
27	1027	Nishant Subhash Tapre	44	36	80	A
28	1028	Pankaj Jiyalal Patle	46	35	81	A
29	1029	Piyush Rajesh Nakshe	38	29	67	B
30	1030	Piyush Singh J. Chawhan	38	35	73	B+
31	1031	Prajwal Anil Ambade	44	38	82	A
32	1032	Pranay Gajanan Badkhal	52	31	83	A
33	1033	Pranay Sushil Thakre	32	32	64	B
34	1034	Pranit Ravindra Vinchurkar	48	33	81	A
35	1035	Prasad Ramrao Tale	52	34	86	A
36	1036	Prathamesh Dashrath Atkar	46	29	75	B+
37	1037	Pratik Naresh Gurnule	42	30	72	B+
38	1038	Pritam Pavitra Das	34	31	65	B
39	1039	Purushottam B Dineshwar	50	34	84	A
40	1040	Purushottam Tukadu Thakre	32	29	61	B
41	1041	Rahul Sudhir Borkar	36	35	71	B+
42	1042	Ranjeet Arabindu Karmakar	32	30	62	B
43	1043	Ritesh Gajanan Wagh	44	29	73	B+
44	1044	Ritik Sudhir Undirwade	32	37	69	B

45	1045	Rohan Kishor Patinge	32	37	69	B
46	1046	Saurabh Raju Patil	50	35	85	A
47	1047	Shubham Narayan Mokaddam	38	38	76	B+
48	1048	S. Purushottamprasad Diyundi	32	30	62	B
49	1049	Shubhanshu Manoj Sane	38	30	68	B
50	1050	Sonu Suryabhan Zade	46	31	77	B+
51	1051	Suyog Madhukar Karemore	32	35	67	B
52	1052	Tanmay Manoj Mane	38	35	73	B+
53	1053	Utkarsh Pravin Pathak	44	38	82	A
54	1054	V Surya Prakash V Nirmal	44	33	77	B+
55	1055	Yash Dattaram Nikhare	38	29	67	B
56	1056	Yash Krishnarao Bade	46	31	77	B+

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College.
Congress Nagar, Nagpur

Sample OMR Sheet.

Shri Shivaji Education Society, Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur-12 (M.S.), India

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Add-on Course
Course Exam Name: Certificate Course in Python Programming

Name of Student:	INSTRUCTIONS FOR FILLING THE SHEET

....

1. This sheet should not be folded or crushed.
2. Use only blue/ black ball point pen to fill the circles.
3. Use of pencil is strictly prohibited.
4. Circles should be darkened completely and properly.
5. Cutting and erasing on this sheet is not allowed.
6. Do not use any stray marks on the sheet.
7. Do not use marker or white fluid to hide the mark.

Roll No.: [ ][ ][ ]   **Session: 2019-20**

Test Date: **Max. Marks: 60**

Obtained Marks: [ ]

Invigilator Signature

WRONG METHODS   CORRECT METHOD

	A B C D		A B C D		A B C D		A B C D		A B C D
1	○○○○	11	○○○○	21	○○○○	31	○○○○	41	○○○○
2	○○○○	12	○○○○	22	○○○○	32	○○○○	42	○○○○
3	○○○○	13	○○○○	23	○○○○	33	○○○○	43	○○○○
4	○○○○	14	○○○○	24	○○○○	34	○○○○	44	○○○○
5	○○○○	15	○○○○	25	○○○○	35	○○○○	45	○○○○
6	○○○○	16	○○○○	26	○○○○	36	○○○○	46	○○○○
7	○○○○	17	○○○○	27	○○○○	37	○○○○	47	○○○○
8	○○○○	18	○○○○	28	○○○○	38	○○○○	48	○○○○
9	○○○○	19	○○○○	29	○○○○	39	○○○○	49	○○○○
10	○○○○	20	○○○○	30	○○○○	40	○○○○	50	○○○○

Answer Key

Shri Shivaji Education Society, Amravati's
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Add-on Course
Course Exam Name: Certificate Course in Python Programming

Name of Student:

....

Roll No.: [ ][ ][ ]   **Session: 2019-20**

Test Date: **Max. Marks: 60**

Obtained Marks: [ ]

Invigilator Signature

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	C	11	C	21	B	31	—	41	—
2	B	12	A	22	A	32	—	42	—
3	B	13	A	23	D	33	—	43	—
4	A	14	C	24	B	34	—	44	—
5	C	15	B	25	B	35	—	45	—
6	A	16	D	26	B	36	—	46	—
7	D	17	C	27	D	37	—	47	—
8	C	18	B	28	B	38	—	48	—
9	C	19	D	29	B	39	—	49	—
10	A	20	C	30	A	40	—	50	—

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Add-on Course
Course Exam Name: Certificate Course in Python Programming

Name of Student: Akshay Rajesh Khobragade.

Roll No.: 1 0 0 2 | **Session:** 2019-20

Test Date: 25-10-2019 | **Max. Marks:** 60

Invigilator Signature | **Obtained Marks:** 34

INSTRUCTIONS FOR FILLING THE SHEET
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WRONG METHODS   CORRECT METHOD

#	A B C D	#	A B C D	#	A B C D	#	A B C D	#	A B C D
1	C	11	C	21	B	31		41	
2	B	12	A	22	D	32		42	
3	B	13	A	23	A	33		43	
4	A	14	C	24	C	34		44	
5	C	15	B	25	A	35		45	
6	A	16		26	C	36		46	
7	D	17		27	A	37		47	
8	C	18		28	D	38		48	
9	C	19	C	29	A	39		49	
10	A	20	C	30	C	40		50	

Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

Accredited with CGPA of 3.51 at 'A+' Grade

A College with Potential for Excellence

CERTIFICATE

Mr./Ku Akash V. Panday is awarded with certificate on successful completion of the course entitled, Certificate course in Python Programming.

Session 2019-20 under Add-on course conducted for 30 hours from 06/12/2019 to 21/02/2020 by Department of Computer Sceince, SSESA's, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with 'B+' Grade.

Ms. P. M. Dadhe
Coordinator. Department of Computer Science

Prof. M. P. Dhore
Principal, Science College, Nag~

Action Taken:

      A free Add-On Course for UG students in the Department of Computer Science, Shri Shivaji Education Society Amravati's Science College, Congress Nagar,Nagpur was held from 2 Aug 2019 to 5 October 2019. The course title was "Introduction to Python Programming". 56 students appeared and passed in both theory and practical examination. The result was prepared and certificates were distributed to the students.

Assistant Professor
Department of Computer Science
S.S.E.S. Amt's Science College.
Congress Nagar, Nagpur

IQAC Coordinator
Science College,
Congress Nagar Nagpur

Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur

Add on Course in Introduction to Python Programming Feedback Form

Name of Student...

Please rate the following aspects of the program on a scale from 1 to 5, with

1. Best	2. Excellent	3. Good	4. Satisfactory	5. Fair

Q.1 How would you rate the organization and structure of the course?

(1)   (2)   (3)   (4)   (5)

Q.2 How do you rate the quality of the delivery of the units by the Teacher?

(1)   (2)   (3)   (4)   (5)

Q.3 How useful were the hands-on assignments and projects in enhancing your practical understanding of Python programming?

(1)   (2)   (3)   (4)   (5)

Q.4 How well-organized was the course structure, including the sequencing of topics and the pacing of the material?

(1)   (2)   (3)   (4)   (5)

Q.5 Overall, how would you rate your learning experience in this Python Programming?

(1)   (2)   (3)   (4)   (5)

Q.6 Any Suggestions:

_____

_____

Feedback Analysis

1. Number of Students Registered for the Course :56
2. Number of Students submitted the Feedback :51
3. Question wise analysis of the Feedback:

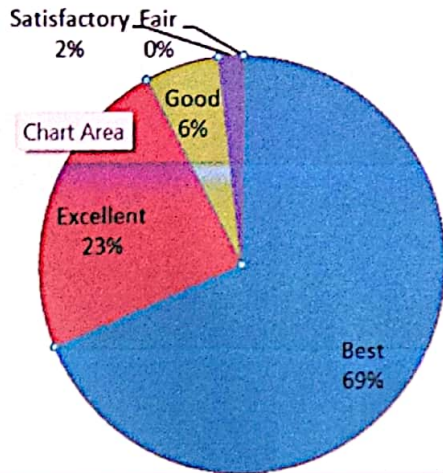| Sr. No	Question	Responses in Percentage (%)				
		Best	Excellent	Good	Satisfactory	Fair
1)	How would you rate the organization and structure of the course?	68.63	23.53	5.88	1.96	0.00
2)	How do you rate the quality of the delivery of the units by the Teacher?	58.82	19.61	11.76	7.84	1.96
3)	How useful were the hands-on assignments and projects in enhancing your practical understanding of Python programming?	62.75	17.65	11.76	7.84	0.00
4)	How well-organized was the course structure, including the sequencing of topics and the pacing of the material?	56.86	21.57	11.76	7.84	1.96
5)	Overall, how would you rate your learning experience in this course?	52.94	23.53	13.73	9.80	0.00
6)	Any Suggestions	No Suggestions: 40% Remaining Comments: Good Course, Nice Course, Change the timing of Classes				

Remark: Students commented that the course will be useful in professional life.

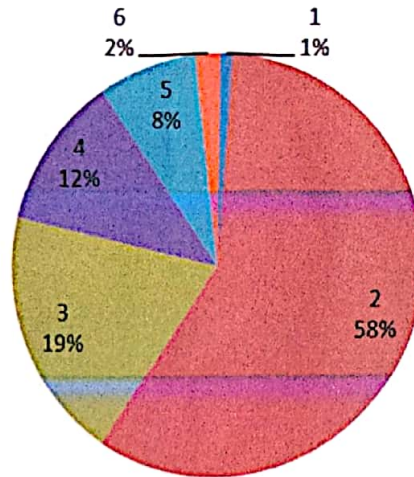Department will keep on improving the quality of the course.

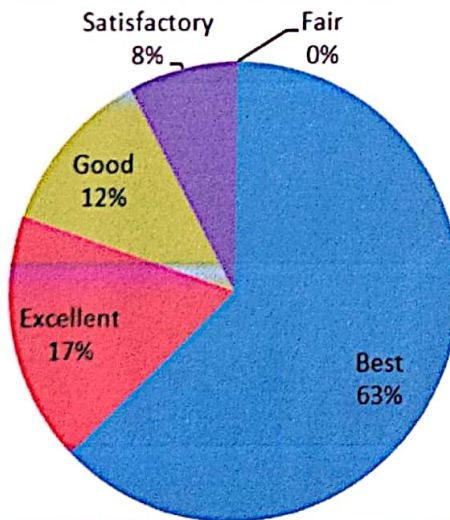## Certificate course: Introduction to Python Programming (2019-20)

Feedback Analysis

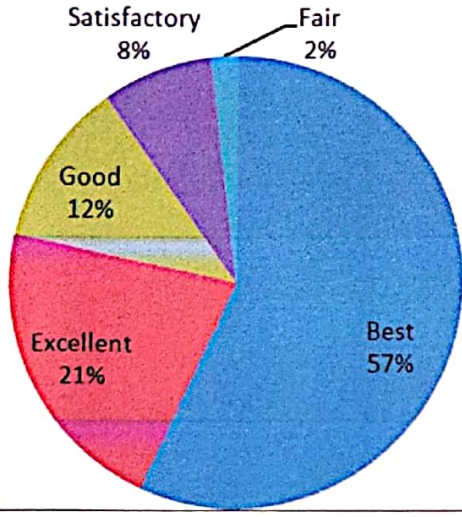**Q1. How would you rate the organization and Structure of the course?**

- Satisfactory 2%
- Fair 0%
- Good 6%
- Excellent 23%
- Best 69%
- Chart Area

Q2. How do you rate the quality of the delivery of the units by the Teacher?
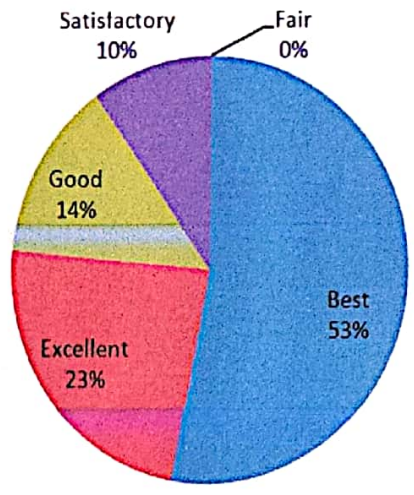

- 6 — 2%
- 1 — 1%
- 5 — 8%
- 4 — 12%
- 3 — 19%
- 2 — 58%

Q3. How useful were the hands-on assignments and projects in enhancing your practical understanding of Python programming?

- Satisfactory 8%
- Fair 0%
- Good 12%
- Excellent 17%
- Best 63%

Q4. How well-organized was the course structure, including the sequencing of topics and the pacing of the material?

Satisfactory 8%
Fair 2%
Good 12%
Excellent 21%
Best 57%

Q5. Overall, how would you rate your learning experience in this course?

Satisfactory 10%
Fair 0%
Good 14%
Excellent 23%
Best 53%

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