KHARAGPUR COLLEGE
KHARAGPUR
ESTD. : 1949

P.O.– Inda, Kharagpur, Municipality– Kharagpur, Sub-Division– Kharagpur,
P.S.– Kharagpur (T), Dist.– Paschim Medinipur, West Bengal, PIN– 721305.

Notice   **Date: 08.04.2022**

Kharagpur College
Kharagpur
Notice for Certificate Course on Python Programming

This is to inform all the students of the college that a certificate course on **Python Programming** will be organized by Department of Computer Science & BCA of the college tentatively on and from 11th May 2022. The course duration is 10 days (30 hours). Last date of registration for the course is 09th May, 2022. There is no Registration fee. Certificate of the course will be issued by Kharagpur College.

Interested students are advised to contact for registration and any other queries with the following teachers.

1. Prof. Alok Haldar (Department of Computer Science & BCA)

08/04/22

Principal
Kharagpur College

Principal
Kharagpur College

Kharagpur College
Department of Computer Science & BCA
Date of Commencement: 11.05.2022
Class schedule for the Certificate Course on
"Python Programming"

Sl. No.	Topic	Resource Person	Theory/ Practical	Duration (Hours)	Date and time
1	Introduction	Prof. Alok Haldar	Both	3	11.05.2022
2	Introduction to Python	Prof. Anudyuti Ghorai	Both	3	12.05.2022
3	Elements of Python	Prof. Alok Haldar	Both	3	14.05.2022
4	Elements of Python	Prof. Anudyuti Ghorai	Both	3	17.05.2022
5	Conditional Statement	Prof. Anudyuti Ghorai	Both	3	19.05.2022
6	Control Statement	Prof. Alok Haldar	Both	3	21.05.2022
7	Sequential data types	Prof. Biswajit Laya	Both	3	01.06.2022
8	Functions and Modules	Prof. Biswajit Laya	Both	3	02.06.2022
9	File Handling	Prof. Subhadip Mukherjee	Both	3	06.06.2022
10	Data Visualization	Prof. Subhadip Mukherjee	Both	3	07.06.2022
11	Evaluation	Prof. Alok Haldar Prof. Anudyuti Ghorai	Practical	½	14.06.2022

Afaldar .06/05/22

Alok Haldar
Course Coordinator and Head,
Department of Computer Science & BCA

06/05/22

Principal
Kharagpur College

Principal
Kharagpur College

Kharagpur College
Dept. Computer Science & BCA
Certificate course on Python Programming

Course Overview

This course covers Basic to Advanced topics of Python language.

Entry Requirement : (10 + 2) or equivalent qualified
Course Duration : 10 days (30 hrs.)
Mode of Training : Face to face Instructor led Training

Course Content

Module1:Introduction	Module6:Control Statement
• Problem solving, Algorithm, flowchart • Types of language, translator	• While loop • For loop
Module 2: Introduction to Python	**Module7:Sequential data types**
• Features of python • Application • Python installation • Python Shell, Python IDLE • Basic programming demo	• List • Tuples • Strings • Bytes and bytes array • Set • dictionary
Module3:Elements of Python	**Module8:functions and modules**
• Python variables, Identifiers • Constants, literal, token, keyword • Data types • Operators: arithmetic, relational, logical	• Function • Function declaration • Function definition • Function call • Function parameters • Return statement • Types of function parameters
Module4:Elements of Python	**Module9:File Handling**
• Operators: bitwise, Identity, membership • Operators Precedence and associativity • Expression in Python	• Introduction • File path • Types of files • Opening and closing files • File positions • Renaming and deleting files
Module5: Conditional statement	**Module10:Data visualization**
• If • If - else • If -elif -else • Nested if	• Matplotlib • Scatter plot • Line chart • Bar chart • Histogram

Alok Haldar
Course Coordinator and Head,
Department of Computer Science & BCA

08/09/22
Principal
Kharagpur College

Principal
Kharagpur College

Kharagpur College
Dept. Computer Science & BCA
Certificate course on Python Programming
Date 14/06/2022
Time : 30 minutes   Full Marks-15

Answer all questions   1X 15 =15

1. The splitlines(), splits lines in strings on which characters?
   a. Whitespace
   b. Comma
   c. Newline
   d. Colon
2. Which slice operation will reverse the list?
   a. Lists [-1::]
   b. Numbers [::-1]
   c. Numbers [:-1:]
   d. List [9:8:1]
3. Which operation is used for list cloning?
   a. Assignment
   b. Slice
   c. Comparison
   d. Repetition
4. Which data structure allows you to return multiple values from a function?
   a. List
   b. Tuple
   c. Dictionary
   d. Set
5. NumPy arrays can be created from _____?
   a. Python list
   b. Python tuples
   c. Individual integers
   d. All of these
6. Which function will be used to convert a tuple into a NumPy array?
   a. np.array()
   b. np.arange()
   c. np.linspace()
   d. np.flatten()
7. Which function is used to save the plot?
   a. Saveplot()
   b. savegraph()
   c. savefig()
   d. savedraw()
8. Default value of histtype in the hist() function is_____
   a. Bar
   b. Barstacked
   c. Step
   d. Stepfilled()

9. Which argument of the sort function applies changes in the data frame passed to the function?
    a. Kind
    b. Na_position
    c. Inplace
    d. Axis

10. Arbitrary arguments have which symbol in the function definition before the parameter name?
    a. &
    b. #
    c. %
    d. *

11. Modules are files saved with _____ extension.
    a. .py
    b. Mod
    c. Mdl
    d. Imp

12. What is the output of this code?
    import random as r
    print(random.randomint(1, 10))

    a. An error occurs
    b. 1
    c. 10
    d. any random number

13. This imports * statement import all names in the module except those beginning with____
    a. %
    b. $
    c. _
    d. !

14. If List = [1,2,3,4,5,6,7,8,9,10] then print List [8:4:-1] will give
    a. [2,3,4,5]
    b. [9,8,7,6]
    c. [6,7,8,9]
    d. [5,4,3,2]

15. Which function returns a tuple of two values?
    a. divmod()
    b. input()
    c. eval()
    d. tuple()

Certificate course on *Python Programming*
Award List
Date of Examination: 14.06.2022
Total Marks:15

SL. NO	ROLLNO	STUDENT NAME	MARKS
1	002	ABHISHEK SHARMA	14
2	003	ABIR MAITY	11
3	004	AJIT SAREN	13
4	005	ANIRBAN DAS	13
5	006	ANOMITRA KAR	12
6	007	ANUVAB SAHU	12
7	009	AVIJIT SUI	12
8	010	AYAN BISWAS	14
9	011	AYON MONDAL	12
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11	014	BHIM HANSDA	12
12	017	DEEPAK SINGH	11
13	018	DIPAYAN CHOWDHURY	14
14	019	HIMANSHU RAY	10
15	020	JEET GOPE	11
16	021	JOY DUTTA	13
17	022	KARAN NATH MAHAPATRA	12
18	023	KOUSHIK SINGHA MAHAPATRA	11
19	024	KUMARJIT MONGAL	14
20	025	KUNAL MONDAL	12
21	026	MANOJIT RAUL	11
22	027	PARTHIB HALDAR	13
23	029	PUJA DAS	12
24	030	PUSKAR GHOSH	11
25	031	RAHUL KUIRY	13
26	032	RAHUL SINGHA	14
27	033	RAJA DAS	11
28	034	SANDIP KUMAR KUNDU	10
29	035	SAYANDIP BOXI	13

SL. NO	ROLLNO	STUDENT NAME	MARKS
30	036	SHREYA RANI DE	14
31	037	SHREYA UPADHYAY	12
32	038	SHREYASI SARKAR	11
33	039	SK AFTAB	10
34	040	SK RAKIUR RAHAMAN	13
35	041	SOMNATH BANERJEE	14
36	044	SUBHASH CHANDRA ADAK	14
37	046	SUDIPTA KOTAL	12
38	047	SUJIT HEMBRAM	14
39	048	SUMAN MANDAL	12
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41	050	SUPRIYO KUNDU	14
42	052	ZIAN NAWAZ	12

Alok Haldar. 14/06/22

Alok Haldar,
Assistant Professor & Head,
Course Coordinator,
Department of Computer Science & BCA

Certificate course on *Python Programming*
Organized by
Department of Computer Science & BCA
Kharagpur College
Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

Date- 06/06/22

Name of the Teacher: SUBHADIP MUKHERJEE

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
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18	023	KOUSHIK SINGHA MAHAPATRA	Koushik SmP
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42	052	ZIAN NAWAZ	Zian Nawaz

Signature of the Teacher

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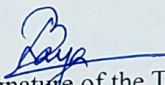Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

Date- 07/06/22

Name of the Teacher: SUBHADIP MUKHERJEE

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
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4	005	ANIRBAN DAS	Anirban Das
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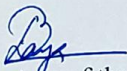### Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

Date- 02/06/22

Name of the Teacher: BISWAJIT LAYA

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir maity
3	004	AJIT SAREN	Ajit Sarren
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Signature of the Teacher

Certificate course on *Python Programming*
Organized by
Department of Computer Science & BCA
Kharagpur College
Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

Date- 01/06/22

Name of the Teacher: Biswajit Laya

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
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Signature of the Teacher

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Certificate course on *Python Programming*
Organized by
Department of Computer Science & BCA
Kharagpur College
Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

</div>

Date- 21/05/22

Name of the Teacher: ALOK HALDAR

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
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Afaldar.
Signature of the Teacher

Certificate course on *Python Programming*
Organized by
Department of Computer Science & BCA
Kharagpur College
Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

Date- 19/05/22

Name of the Teacher: ANUDYUTI GHORAI

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
5	006	ANOMITRA KAR	Anomitra kar
6	007	ANUVAB SAHU	Anuvab Sahu
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A Ghorai

Signature of the Teacher

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Organized by
Department of Computer Science & BCA
Kharagpur College
Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet
Date- 17/05/22

Name of the Teacher: ANUDYUTI GHORAI

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
5	006	ANOMITRA KAR	Anomitra kar
6	007	ANUVAB SAHU	Anuvab Sahu
7	009	AVIJIT SUI	Avijit Sui
8	010	AYAN BISWAS	Ayan Biswas
9	011	AYON MONDAL	Ayon Mondal
10	012	B SRUTHI	ABSENT
11	014	BHIM HANSDA	Bhim Hansda
12	017	DEEPAK SINGH	Deepak Singh
13	018	DIPAYAN CHOWDHURY	Dipayan Chowdhury
14	019	HIMANSHU RAY	Himanshu Ray
15	020	JEET GOPE	Jeet Gope
16	021	JOY DUTTA	Joy Dutta.
17	022	KARAN NATH MAHAPATRA	Karan nath mahapatra
18	023	KOUSHIK SINGHA MAHAPATRA	Koshik S. MD
19	024	KUMARJIT MONGAL	Kmanjit Mongal
20	025	KUNAL MONDAL	Kunal Mondal
21	026	MANOJIT RAUL	Manojit Raul.
22	027	PARTHIB HALDAR	Parthib Haldar
23	029	PUJA DAS	Puja Das
24	030	PUSKAR GHOSH	Puskar Ghosh
25	031	RAHUL KUIRY	Rahul Kuiry
26	032	RAHUL SINGHA	Rahul Singha.
27	033	RAJA DAS	Raja Das
28	034	SANDIP KUMAR KUNDU	Sandip Kumar Kundu

29	035	SAYANDIP BOXI	Sayandip Boxi
30	036	SHREYA RANI DE	Shreya De
31	037	SHREYA UPADHYAY	Shreya Upadhyay
32	038	SHREYASI SARKAR	Shreyasi Sarkar
33	039	SK AFTAB	SK. Aftab
34	040	SK RAKIUR RAHAMAN	Sk. R Rahaman
35	041	SOMNATH BANERJEE	Somnath Banerjee
36	044	SUBHASH CHANDRA ADAK	Subhash Chandra Adak
37	046	SUDIPTA KOTAL	Sudipta Kotal
38	047	SUJIT HEMBRAM	Sujit Hembram
39	048	SUMAN MANDAL	Suman Mandal
40	049	SUNIL BISUI	Sunil Bisui
41	050	SUPRIYO KUNDU	Supriyo Kundu.
42	052	ZIAN NAWAZ	Zian Nawaz

AGhorai

Signature of the Teacher

Certificate course on *Python Programming*
Organized by
Department of Computer Science & BCA
Kharagpur College
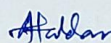### Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

Date- 14/05/22

Name of the Teacher: ALOK HALDAR

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek Sharma
2	003	ABIR MAITY	Abir Maity
3	004	AJIT SAREN	Ajit Saren
4	005	ANIRBAN DAS	Anirban Das
5	006	ANOMITRA KAR	Anomitra Kar
6	007	ANUVAB SAHU	Anuvab Sahu
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18	023	KOUSHIK SINGHA MAHAPATRA	Koushik S.Mpatra
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27	033	RAJA DAS	Raja Das
28	034	SANDIP KUMAR KUNDU	Sandip Kumar Kundu

29	035	SAYANDIP BOXI	*Sayandip Boxi*
30	036	SHREYA RANI DE	*Shreya De*
31	037	SHREYA UPADHYAY	*Shreya Upadhyay.*
32	038	SHREYASI SARKAR	*Shreyasi Sarkar*
33	039	SK AFTAB	*Sk. Aftab*
34	040	SK RAKIUR RAHAMAN	*Sk Rakiur Rahaman.*
35	041	SOMNATH BANERJEE	*Somonath Banerjee*
36	044	SUBHASH CHANDRA ADAK	*Subhash Chandra Adak*
37	046	SUDIPTA KOTAL	*Sudipta Kotal*
38	047	SUJIT HEMBRAM	*Sujit Hembram*
39	048	SUMAN MANDAL	*Suman Mandal*
40	049	SUNIL BISUI	*Sunil Bisui*
41	050	SUPRIYO KUNDU	*Supriyo Kundu.*
42	052	ZIAN NAWAZ	*Zian Nawaz*

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Signature of the Teacher

Certificate course on *Python Programming*
Organized by
Department of Computer Science & BCA
Kharagpur College
Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet
Date- 11/05/22

Name of the Teacher: ALOK HALDAR

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek Sharma
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Certificate course on *Python Programming*
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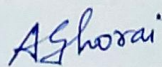### Course Duration-11.05.2022 to 14.06.2022 (10 days, 30 hours)
Attendance Sheet

Date- 12/05/22

Name of the Teacher: ANUDYUTI GHORAI

SL. NO	ROLLNO	STUDENT NAME	SIGNATURE
1	002	ABHISHEK SHARMA	Abhishek sharma
2	003	ABIR MAITY	Abir maity
3	004	AJIT SAREN	Ajit Saren
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42	052	ZIAN NAWAZ	Zian Nawaz

AGhorai

Signature of the Teacher

SUMMARY REPORT ON

CERTIFICATE COURSE ENTITLED

"Python Programming"

Organised by

Department of Computer Science & BCA
Kharagpur College

DATE: From 11.05.2022 to 14.06.2022
DURATION: 10 Days (30 Hours)

Coordinator: Prof. Alok Haldar, Assistant Professor and Head,
Department of Computer Science & BCA,
Kharagpur College

Computer Proficiency is an essential part of modern education. The certificate course is designed to provide UG students with a solid foundation in basic computer knowledge, concepts and techniques of Python Programming which can lead to improve job prospects and career advancement opportunities. The course also provides a strong foundation for further study in computer and related fields like web development, data science, artificial intelligence and machine learning.

The course aims to prepare the undergraduate and post graduate students of different streams like BCA, science etc. with basic abilities as well as hands-on experience in python programming.

Course Objectives can be listed as below:

➢ To Provide the fundamentals of writing Python scripts
➢ To learn core Python scripting elements such as variables and flow control structures
➢ To discover how to work with lists and sequence data
➢ To write Python functions to facilitate code reuse
➢ To provide their code robust by handling errors and exceptions properly
➢ Work with the Python standard library
➢ To be explore Python's object-oriented features

Taught by:

1. Prof. Alok Haldar, Assistant Professor and Head, Department of Computer Science & BCA, Kharagpur College
2. Mr. Anudyuti Ghorai, State Aided College Teacher, Department of Computer Science & BCA, Kharagpur College
3. Mr. Subhadip Mukherjee, State Aided College Teacher, Department of Computer Science & BCA, Kharagpur College
4. Mr. Biswajit Laya,State Aided College Teacher, Department of Computer Science & BCA, Kharagpur College