ADD ON COURSE REPORT ON PYTHON PROGRAMMING-2023-24

Add on Course Report on Python Programming-2023-24

The Python Programming course was designed as an add-on for undergraduate students aiming to equip them with programming skills in Python. Over the duration of the course, students delved into various aspects of Python programming, from basic syntax to more advanced concepts like flask framework, python flask-render template, object-oriented programming and data manipulation. This report summarizes the key components and outcomes of the Python Programming course.

Duration of the Course: 35 Hours
Total number of students enrolled and completed the course :109
Date of Add on Course conducted :05.06.2023 To 24.06.2023
No of times conducted the course during the year: 3 times
Programmes: II semester BCA A(33students), II Semester BCA B (32 students), II semester BSc CS (44 students)
Certificate Provider: STED Council
The primary objectives of the Python Programming course were as follows:

- Introduce students to the Python programming language.
- Familiarize students with Python syntax, data structures, and control flow.
- Provide hands-on experience through coding exercises and projects.
- Explore advanced topics such as object-oriented programming and data analysis using Python libraries.
- Foster critical thinking and problem-solving skills through programming challenges.

*Course Structure:*The course was structured into modules, each covering specific topics related to Python programming. The modules included:

- **Introduction to Python**: Basic syntax, data types, and variables.
- **Control Structures**: Conditional statements and loops.
- **Functions**: Defining and calling functions.
- **Data Structures**: Lists, tuples, dictionaries, and sets.
- **File Handling**: Reading from and writing to files.
- **Object-Oriented Programming**: Classes, objects, and inheritance.
- **Error Handling**: Handling exceptions and errors.
- **Introduction to flask framework**: Introduction to popular Python libraries such as NumPy and Pandas.
- **Data Analysis**: Data manipulation and analysis using Pandas.
- **Hosting web application**: Application of learned concepts in real-world projects.

*Teaching Methodology:*The course adopted a blended learning approach, combining lectures, tutorials, and hands-on coding sessions. Lectures were conducted to introduce new concepts, followed by tutorials

where students practiced coding exercises under the guidance of instructors. Additionally, students were assigned projects to apply their knowledge to solve practical problems.

Assessment

Assessment in the Python Programming course was based on the written examination conducted by STED Council.

Outcomes

The Python Programming course yielded several positive outcomes:

1. Improved understanding of programming fundamentals: Students gained a solid understanding of programming concepts such as variables, data types, and control flow.
2. Proficiency in Python programming: Students became proficient in writing Python code to solve a variety of problems.
3. Introduction to data analysis: Students were introduced to data analysis techniques using Python libraries like Pandas, laying the foundation for future studies in data science.
4. Enhanced problem-solving skills: Through coding exercises and projects, students developed critical thinking and problem-solving skills.
5. Increased confidence: Students gained confidence in their programming abilities, which will benefit them in their academic and professional pursuits.

Conclusion

The Python Programming course provided undergraduate students with a comprehensive introduction to Python programming, equipping them with essential skills for their academic and professional endeavors. By combining theoretical concepts with practical applications, the course fostered a deeper understanding of programming fundamentals and enhanced problem-solving abilities. Overall, the course was a success in preparing students for the challenges of modern-day programming.

Prepared By,   Verified By,   Approved By,

Sarithadevi S   Jayakrishnan S   Fr.(Dr.)Paulachan K J
Asst. Professor,   Associate Professor/HoD   Principal
Department of Computer Science   Department of Computer Science

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No: NCS/AOP/01/2023-2024   Date:01.06.2023

CIRCULAR

The add on program titled as **"Python Programming"** (35 hours) with course code 2AOP-01 for the second semester BSc Computer Science, BCA (A) and BCA (B) batches will commence from 05.06.2023 to 24.06. 2023. The program will take place in the main block computer lab, offline. The course certificate is provided by STED Council.

Fr. Dr. Paulachan K.J

(Principal)

Syllabus

Duration of the Course:35 Hours

Course Objectives

- Introduce students to the Python programming language.
- Familiarize students with Python syntax, data structures, and control flow.
- Provide hands-on experience through coding exercises and projects.
- Explore advanced topics such as object-oriented programming and data analysis using Python libraries.
- Foster critical thinking and problem-solving skills through programming challenges.

Course Outcomes

The Python Programming course yielded several positive outcomes:

1. CO1: Improved understanding of programming fundamentals: Students gained a solid understanding of programming concepts such as variables, data types, and control flow.
2. CO2: Proficiency in Python programming: Students became proficient in writing Python code to solve a variety of problems.
3. CO3: Introduction to data analysis: Students were introduced to data analysis techniques using Python libraries like Pandas, laying the foundation for future studies in data science.
4. CO4: Enhanced problem-solving skills: Through coding exercises and projects, students developed critical thinking and problem-solving skills.
5. CO5: Increased confidence: Students gained confidence in their programming abilities, which will benefit them in their academic and professional pursuits.

Module 1

Program Orientation Introduction to Programming: The What, Why & How of Programming Setting the Environment & Basic Printing in Python Basics - Variables & Data Types Operators in Python Data Structures - List and Tuple Data Structures - Dictionary and Set

Module 2

Program Flow Control - if, elsif and conditional operators Program Flow Control - Boolean Expressions & in and not in Loops - for and while Break, Continue and Pass

Module 3

Functions (Built-in and User-defined) Version Controlling using GitHub Object Oriented Python

Module 4

Web Application Development and Deployment Introduction to Database MySQL Python Integration Introduction to HTML and CSS

Module 5

Introduction to Flask Framework Python Flask - Render Template Hosting a Web Application

CO-PO/PSO Mapping

PSO → CO ↓	PSO1	PSO2	PSO3	PSO4	PO1	PO2	PO3	PO4	PO5
CO1	2	2	1	1	1	1	2	3	3
CO2	2	2	2	2	1	1	1	1	1
CO3	2	3	2	1	2	1	2	1	1
CO4	2	3	2	2	2	1	1	1	1
CO5	2	3	2	2	2	1	2	2	2

Participant's List-Add On Course in Python Programming- 2022-2023

Sl. No	Reg. No	Name Of Student
01	NIAWBCA041	AISWARYA T B
02	NIAWBCA048	AJITH K S
03	NIAWBCA042	ALEENA DOMINIC
04	NIAWBCA050	ALEN JOHNSON
05	NIAWBCA031	ALEX JOSE
06	NIAWBCA009	ALFRED TITUS
07	NIAWBCA052	ALVIN BINU
08	NIAWBCA054	AMAL P S
09	NIAWBCA001	ANJANA DINESH
10	NIAWBCA010	ANJO SIBY
11	NIAWBCA002	ANNAMARIYA JOY
12	NIAWBCA011	ANWIN JOSE
13	NIAWBCA055	ATHUL JOY
14	NIAWBCA057	DELWIN DAIMI
15	NIAWBCA058	DON DAVIS
16	NIAWBCA043	ERRIN MATHEW
17	NIAWBCA004	IRIN RIJU
18	NIAWBCA015	JEEVAN C R
19	NIAWBCA016	JISMON SONY
20	NIAWBCA061	JITHIN P J
21	NIAWBCA017	JOEL ANTONY
22	NIAWBCA063	JOHN RAJESH CHEERAKATHIL
23	NIAWBCA036	MEBIN POLACHAN
24	NIAWBCA023	MINNU MARIA THOMAS
25	NIAWBCA065	NOYAL JOSE
26	NIAWBCA018	PAUL J KOTTACKAL
27	NIAWBCA066	PAUL JOSE
28	NIAWBCA037	PAUL OUSEPH
29	NIAWBCA019	PRIYAN POLACHAN
30	NIAWBCA044	ROSMI REJI
31	NIAWBCA045	SARANYA S
32	NIAWBCA068	SHIVANAND M

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35	NIAWBCA027	ADWAITH M K
36	NIAWBCA040	AISWARYA S
37	NIAWBCA007	ALAN JOY
38	NIAWBCA049	ALAN SEBASTIAN
39	NIAWBCA028	ALANT SAJI
40	NIAWBCA029	ALBIN MARTIN
41	NIAWBCA008	ALEN ANTU
42	NIAWBCA030	ALEX ANIL
43	NIAWBCA051	ALEX S PUTHUSSERY
44	NIAWBCA053	ALWIN SEBASTIAN
45	NIAWBCA032	ANTUS A P
46	NIAWBCA056	AUSTIN M M
47	NIAWBCA003	BHADRA BIJU
48	NIAWBCA012	CYRIL J KIZHAKOODEN
49	NIAWBCA033	DON SEBASTIAN
50	NIAWBCA022	ELZA BIJU
51	NIAWBCA013	FARHATH
52	NIAWBCA059	GEO JOSHY
53	NIAWBCA034	GRITTO SHAIJU
54	NIAWBCA014	IGNO VARGHESE
55	NIAWBCA062	JOE JOSEPH JOBY
56	NIAWBCA035	LIJO SHAIJU
57	NIAWBCA005	MERIN ANNA JOSEPH
58	NIAWBCA006	MERIN THOMAS
59	NIAWBCA067	RHYTHIN JOSEPH
60	NIAWBCA020	SAI PRASAD A S
61	NIAWBCA046	SHANIYA SHAJU
62	NIAWBCA025	SONA P P
63	NIAWBCA038	SURYAJITH P.C
64	NIAWBCA026	UMAMAHESWARI P
65	NIAWBCA039	VIVEK WILSON
66	NIAWSCS006	ABHINAV T P
67	NIAWSCS007	ADITHIAN N S
68	NIAWSCS001	ADITHYA JAYARAJ
69	NIAWSCS008	AIBEL JOSHY
70	NIAWSCS038	AKASH SANTHOSH
71	NIAWSCS020	ALAN DEVASSY

72	NIAWSCS028	ALEENA JOY
73	NIAWSCS029	ALEENA JOY
74	NIAWSCS009	ALEN CHERIAN
75	NIAWSCS010	ALEN SEBASTINE
76	NIAWSCS030	ANN MARIYA SHIJU
77	NIAWSCS011	ANSON JAISON
78	NIAWSCS039	ASWIN V S
79	NIAWSCS021	DEVA O S
80	NIAWSCS012	DHEERAJ S
81	NIAWSCS002	DIYA DAVIS
82	NIAWSCS004	GEETHIKA R. KRISHNAN
83	NIAWSCS013	HAFEEZ RAHMAN S H
84	NIAWSCS014	IVAN REJI
85	NIAWSCS031	JEEMOL K.S
86	NIAWSCS022	JISHNU O M
87	NIAWSCS040	JOHN PAUL K DAVIS
88	NIAWSCS016	JOS EPHRAIM
89	NIAWSCS023	JOYAL.K.SHAJAN
90	NIAWSCS041	KIRAN SEBASTIAN
91	NIAWSCS005	LIBIYA SEBU
92	NIAWSCS024	MAHESHWAR RANJITH
93	NIAWSCS032	MARIA JOY
94	NIAWSCS033	MEGHA BABY
95	NIAWSCS025	NAVEEN VINAYAN
96	NIAWSCS034	NEERAJA SUDHEER
97	NIAWSCS042	NICHOL AIROOKARAN
98	NIAWSCS035	NIVEDITHA K M
99	NIAWSCS026	PRANAV A P
100	NIAWSCS043	PRANAV SHIJU
101	NIAWSCS017	RONY K SUNNY
102	NIAWSCS019	SANDRA JOHN
103	NIAWSCS018	SANRAJ.K.S
104	NIAWSCS044	SAURAV KANNAN PV
105	NIAWSCS036	SHEBA VARGHESE
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107	NIAWSCS037	SHERIN JOHNSON
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109	NIAWSCS027	VIJAY THOMAS

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The Academic Board of Sted Council hereby makes known that

SAI PRASAD A.S *has successfully completed the course on*

CERTIFICATE IN PYTHON PROGRAMMING

of 35 hours *duration at* NAIPUNNYA INSTITUTE OF MANAGEMENT & INFORMATION

TECHNOLOGY, THRISSUR, KERALA *and has been placed in* A *Grade*

at the examination held in the 2nd *day of* February *year* 2024

Given under the stamp of Sted Council dated 16:03:2024

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Grade A - 70% above
Grade B - 50% above
Grade C - 40% above

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Sl. No. :	A17203	Reg. No. :	2730323946

Name	SAI PRASAD.A.S	ATC Code	946/TSR/21
Course	CERTIFICATE IN PYTHON PROGRAMMING		
Duration	35 hours	Grade	-A-	Examination Date	02:02:2024

Serial No.	Subjects	Maximum Marks	Minimum Marks	Marks Obtained	Remarks
1.	Python Programming	50	20	-31-	PASS
	Grand Total	50	20	-31-	PASS
	Total in words		-THREE-ONE-		

CLASSIFICATION OF GRADES

Percentage of marks	Grade	Rating
80% & above	A+	First Class with Distinction
60% & above	A	First Class
50% & above	B	Second Class
40% & above	C	Third Class

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.... SONA P.P .... has successfully completed the course on

CERTIFICATE IN PYTHON PROGRAMMING

of ..... 35 hours ..... duration at NAIPUNNYA INSTITUTE OF MANAGEMENT & INFORMATION

TECHNOLOGY, THRISSUR, KERALA ..... and has been placed in .. A+ .. Grade

at the examination held in the ..2nd.. day of ..... February ..... year ..2024..

Given under the stamp of Sted Council dated ...... 16:03:2024 ......

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Grade A+ : 80% above
Grade A : 70% above
Grade B : 50% above
Grade C : 40% above

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Sl. No. : A17202

Reg. No. : 3219923946

Name	SONA.P.P	**ATC Code**	946/TSR/21
Course	CERTIFICATE IN PYTHON PROGRAMMING		
Duration	35 hours **Grade** A+ **Examination Date**		02:02:2024

Serial No.	Subjects	Maximum Marks	Minimum Marks	Marks Obtained	Remarks
1.	Python Programming	50	20	-40-	PASS
	Grand Total	50	20	-40-	PASS
	Total in words	-FOUR-ZERO-			

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60% & above	A	First Class
50% & above	B	Second Class
40% & above	C	Third Class

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