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ADD ON COURSE REPORT ON PYTHON PROGRAMMING-2023-24

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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.

<u>Course Structure:</u> 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.

<u>Teaching Methodology:</u> 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

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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,

Sarithadevi S. Asst. Professor.

Department of Computer Science

Verified By,

Jayakrishnan S

Associate Professor/HoD

Department of Computer Science

Approved By,

Fr.(Dr.)Paulachan K J

Principal





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NAIPUNNYA INSTITUTE OF MANAGEMENT AND INFORMATION TECHNOLOGY

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)

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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





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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 -	PSO1	PSO2	PSO3	PSO4	PO1	PO2	PO3	PO4	PO5
со									
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

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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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34	NIAWBCA047	ABEL P JOHNSON		
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 NIAWSCS001		AJITITA JATARUS AIBEL JOSHY		
70	NIAWSCS008	AKASH SANTHOSH		
70	NIAWSCS036 NIAWSCS020	ALAN DEVASSY		

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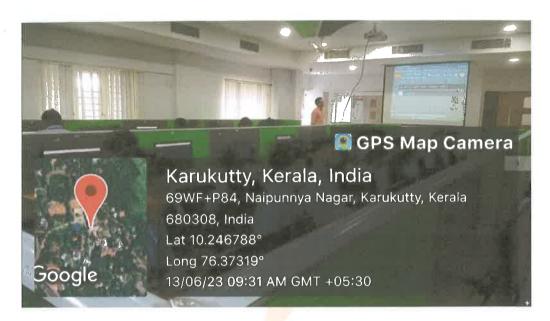
	72	NIAWSCS028	ALEENA JOY		
73 74 75 76		NIAWSCS029	ALEENA JOY		
		NIAWSCS009	ALEN CHERIAN ALEN SEBASTINE ANN MARIYA SHIJU		
		NIAWSCS010			
		NIAWSCS030			
	77	NIAWSCS011	ANSON JAISON		
	78	NIAWSCS039	ASWIN V S		
	79	NIAWSCS021	DEVA O S		
	80	NIAWSCS012	DHEERAJ S		
	81	NIAWSCS002	DIYA DAVIS		
	82	NIAWSCS004	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		
	106	NIAWSCS045	SHERIN BABU		
107		NIAWSCS037	SHERIN JOHNSON		
	108	NIAWSCS046	SHREERAG NAMBOOTHIRI K H		
	109	NIAWSCS027	VIJAY THOMAS		

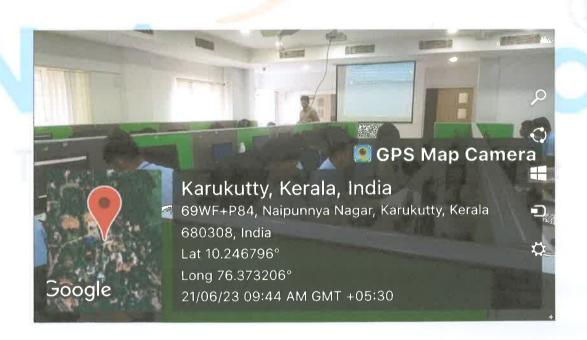




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PHOTOS



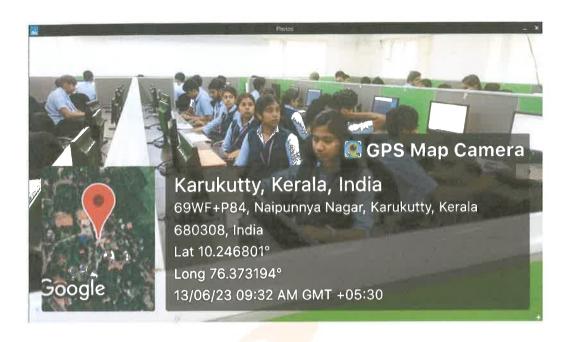


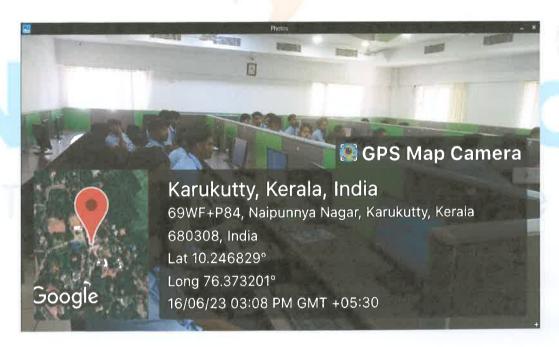
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CERTIFICATES AND MARK LIST



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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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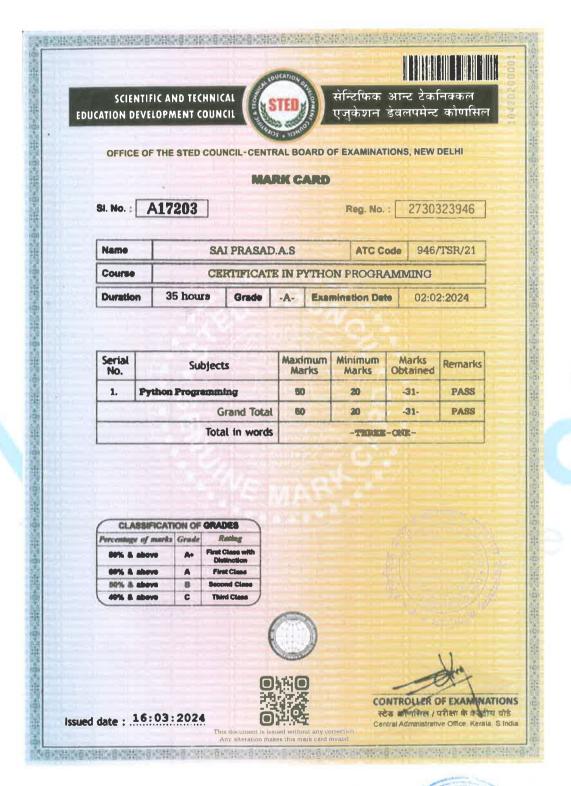
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