

# REPORT OF THE VALUE-ADDED COURSE ON “CODING MATHEMATICS IN PYTHON”

## Introduction:

"In consideration of the skills demanded by the current job market, the Department of Mathematics at St. Edmund's College, Shillong, conducted a Value-Added Course on '*Coding Mathematics in Python*' from the 3rd to the 14th of October 2023, in the Mathematics Multipurpose Lab, following a comprehensive discussion and collective decision. Prof Gregory. J. Kharbhih was given the responsibility to be the resource person for the course.

## Course Objective:

The primary objective of the course is to provide students with the foundations of python for the purpose of coding mathematics in areas like Arithmetic, Algebra, Geometry, and number Theory.

## Course structure:

The course spanned a total of 12 hours and was designed to be interactive and engaging. Students were introduced to coding in two prominent platforms, Microsoft VS Code and Jupyter Notebook. All course materials and resources were conveniently made available through Google Classroom, ensuring easy access and readability. The classes were usually held from 1:00pm to 2:30pm and daily attendance were also recorded.

## Course Content

The content of the course covers introductory topics in python programming. It includes: -

- Introduction to Python.
- Python syntax, variables, and data types.
- Input and output operations.
- Types of operations
- Conditional statements and loops.
- Applications in Mathematics.

## Teaching Methodology:

Each section of the course content was taught with the use of practical mathematical examples and exercises. Students were able to follow the explanations with real time coding in the computer during the class, thereby ensuring a hands-on and effective learning experience for the students.

## Learning Outcome:

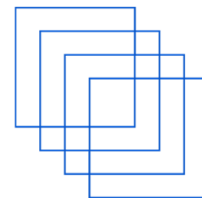
Upon completion of the course, the students acquired the intended programming skills, basic understanding of python and the ability to apply the programming skills to solve mathematical problems through coding.

## Course Brochure

Value  
Added  
Course

UPSKILL  
UPGRADE YOUR SKILL

# Coding Mathematics in Python



[Click to register](#)

Dates: 3-14 October, 2023

Duration: 12hrs

### Course highlights

- Syntax and variables
- Data types
- Operations
- Control flow
- Data structures

### Learning outcomes

- To understand the basics of coding in python.
- To acquire the necessary programming skills to solve mathematical problems.



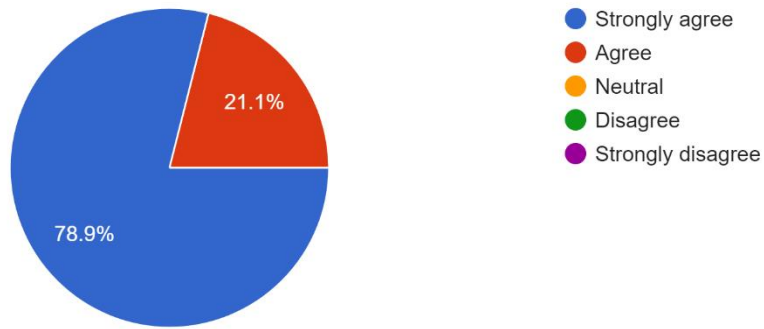
Department of Mathematics  
St. Edmund's College, Shillong

## Feedbacks:

Feedbacks were collected through google form and the summary of the feedbacks is mentioned below: -

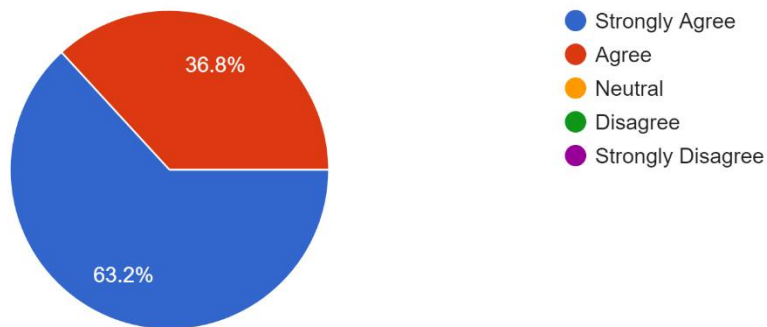
The Course has provided you with the basic skills of programming :-

19 responses



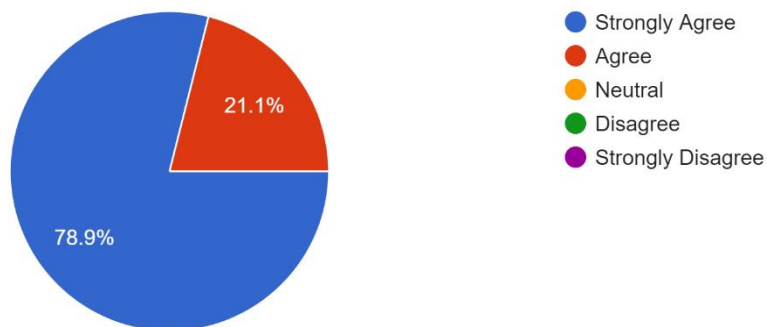
The teaching methodology is effective and engaging.

19 responses



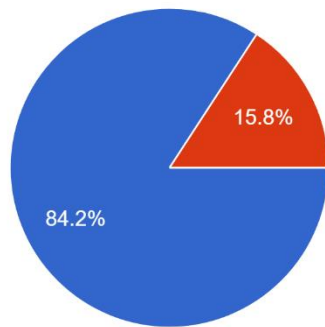
The course has provide you the basic knowledge of python.

19 responses



The course has inspired you to want to learnt more on Python and computer Programming.

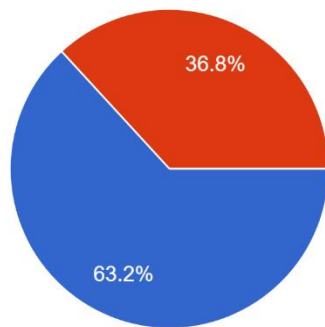
19 responses



- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

The learning experience is engaging and productive.

19 responses



- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

### Suggestions for further improvement:

I hope for the future if this course will be continued, it's better to take the course on Saturday rather than after class. Cause in my opinion, we were all tired after class and sometimes we cannot concentrate on what we have learned. So I think it's better to have this class every Saturday.

To learn more about programming and python

We continue to study more theories and practical's side by side to understand python and programming better

No suggestions. Ongoing teaching methodology is enough for me.

No Comment

To do more program like this in the upcoming with more time available.

It was the most useful knowledge which we are required to learn for our future necessary

Everything is good at the moment, nothing to add

Its a basic course and its very important course for our own knowledge related with the subject we learnt and to improve our own skill in what we want to achieve,at the same time this course is a free course so we have to take this opportunity that we got....

Making us to write more codes in computer

No comments.

The course has really enhanced my knowledge towards python, programming and I'm looking forward to more of such courses that helps us to develop basic skills and techniques... thank you...

If we can give us time to do our own work it will be so good

## Certificates and Photos:



# Attendance:

Attendance sheet for Value Added Course conducted by the Department of Mathematics, St. Edmund's College.

Course Title: Coding Mathematics in Python

Dates: 3-14 October 2023

Time: 1:00-2:30pm

Venue: Mathematics, multipurpose Lab

Sl no	Name of Student	3.10.2023	4.10.2023	5.10.2023	6.10.2023	7.10.2023	9.10.2023	10.10.2023	11.10.2023
1	Rida Bareh	R. Bareh	R. Bareh	R. Bareh	R. Bareh	R. Bareh	R. Bareh	R. Bareh	R. Bareh
2	L Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi
3	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi
4	Duhi Najjar	D. Najjar	D. Najjar	D. Najjar	D. Najjar	D. Najjar	D. Najjar	D. Najjar	D. Najjar
5	Siari Jamatia	Siari Jamatia	Siari Jamatia	Siari Jamatia	Siari Jamatia	Siari Jamatia	Siari Jamatia	Siari Jamatia	Siari Jamatia
6	Varsha Rai	Varsha Rai	Varsha Rai	Varsha Rai	Varsha Rai	Varsha Rai	Varsha Rai	Varsha Rai	Varsha Rai
7	Banriakor Nongsiej	B. Nongsiej	B. Nongsiej	B. Nongsiej	B. Nongsiej	B. Nongsiej	B. Nongsiej	B. Nongsiej	B. Nongsiej
8	S Devika Devi	S. Devika Devi	S. Devika Devi	S. Devika Devi	S. Devika Devi	S. Devika Devi	S. Devika Devi	S. Devika Devi	S. Devika Devi
9	Lansuiling Kabui	L. Kabui	L. Kabui	L. Kabui	L. Kabui	L. Kabui	L. Kabui	L. Kabui	L. Kabui
10	Thutan Lhamu	T. Lhamu	T. Lhamu	T. Lhamu	T. Lhamu	T. Lhamu	T. Lhamu	T. Lhamu	T. Lhamu
11	Nini Pynkhleng	N. Pynkhleng	N. Pynkhleng	N. Pynkhleng	N. Pynkhleng	N. Pynkhleng	N. Pynkhleng	N. Pynkhleng	N. Pynkhleng
12	Derrickson Ymbon	D. Ymbon	D. Ymbon	D. Ymbon	D. Ymbon	D. Ymbon	D. Ymbon	D. Ymbon	D. Ymbon
13	Sally Basumatary	Sally B	Sally B	Sally B	Sally B	Sally B	Sally B	Sally B	Sally B
14	Luke Brandon R Marak	L. Marak	L. Marak	L. Marak	L. Marak	L. Marak	L. Marak	L. Marak	L. Marak
15	Joseph Rotinrela	J. Rotinrela	J. Rotinrela	J. Rotinrela	J. Rotinrela	J. Rotinrela	J. Rotinrela	J. Rotinrela	J. Rotinrela
16	Sebril Areng	S. Areng	S. Areng	S. Areng	S. Areng	S. Areng	S. Areng	S. Areng	S. Areng
17	Dathrangki O Pakyntein	D. Pakyntein	D. Pakyntein	D. Pakyntein	D. Pakyntein	D. Pakyntein	D. Pakyntein	D. Pakyntein	D. Pakyntein
18	Batkupar Sungoh	B. Sungoh	B. Sungoh	B. Sungoh	B. Sungoh	B. Sungoh	B. Sungoh	B. Sungoh	B. Sungoh
19	Mebanshan suna	M. Suna	M. Suna	M. Suna	M. Suna	M. Suna	M. Suna	M. Suna	M. Suna
20	Y Sanjeev Singha	Y. Singha	Y. Singha	Y. Singha	Y. Singha	Y. Singha	Y. Singha	Y. Singha	Y. Singha

Sl no	Name of Student	12.10.2023	13.10.2023	14.10.2023
1	Rida Bareh	R. Bareh	R. Bareh	R. Bareh
2	L Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi	L. Mahimabanti Devi
3	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi	Catherine Lalmsawmi
4	Duhi Najjar	D. Najjar	D. Najjar	D. Najjar
5	Siari Jamatia	Siari Jamatia	Siari Jamatia	Siari Jamatia
6	Varsha Rai	Varsha Rai	Varsha Rai	Varsha Rai
7	Banriakor Nongsiej	B. Nongsiej	B. Nongsiej	B. Nongsiej
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9	Lansuiling Kabui	L. Kabui	L. Kabui	L. Kabui
10	Thutan Lhamu	T. Lhamu	T. Lhamu	T. Lhamu
11	Nini Pynkhleng	N. Pynkhleng	N. Pynkhleng	N. Pynkhleng
12	Derrickson Ymbon	D. Ymbon	D. Ymbon	D. Ymbon
13	Sally Basumatary	Sally B	Sally B	Sally B
14	Luke Brandon R Marak	L. Marak	L. Marak	L. Marak
15	Joseph Rotinrela	J. Rotinrela	J. Rotinrela	J. Rotinrela
16	Sebril Areng	S. Areng	S. Areng	S. Areng
17	Dathrangki O Pakyntein	D. Pakyntein	D. Pakyntein	D. Pakyntein
18	Batkupar Sungoh	B. Sungoh	B. Sungoh	B. Sungoh
19	Mebanshan suna	M. Suna	M. Suna	M. Suna
20	Y Sanjeev Singha	Y. Singha	Y. Singha	Y. Singha

# Acknowledgments:

The department of Mathematics wish to express its heartfelt gratitude to Br. Simon Coelho, Principal in Charge, for his unwavering support, which has been instrumental for the success of the course. The Department also wish to extend its gratitude to Prof. Gregory. J. Kharbhiih for taking up the responsibility to conduct the course, efficiently and successfully.