

CONTACT

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Directorate of Continuing Education (DCE)

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About DCE

DCE established in **1995 at BUET**, a platform for decentralized and adaptive learning to bridge the gap between Professionals and Academicians, promotes pedagogical development with a combined experience of Academicians and Professionals and offers distance training opportunities. So far, **233** short courses/training workshops have been offered to serve more than **10,700** professionals.

February 2025						
SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

SHORT COURSE OUTCOMES

At the end of this short course participants excel in learning and subsequently apply knowledge on

- Developing a strong understanding of Python syntax, data types, control flow structures, and functions, laying a solid foundation for further learning and exploration.
- Learning how to design and implement your classes and objects, leveraging encapsulation, inheritance, and polymorphism to build modular and scalable applications.
- Acquiring essential skills for data manipulation, analysis, and visualization using libraries like NumPy, Pandas etc.
- Gaining confidence in one's ability to write clean, efficient code and tackle programming challenges using Python's versatile features and libraries.

RESOURCE PERSON

Dr. M. Sohel Rahman
Professor, CSE, BUET.

Fellow, Bangladesh Academy of Sciences
Distinguished Member, ACM
Senior Member, IEEE

OTHERS DETAILS:

Prerequisites: Prior Knowledge of Algebra is expected but not mandatory.

Equipment Requirement: Participants are requested to bring laptops.

DURATION

03 Days: 07 - 09 Feb 2025 (Friday – Sunday)

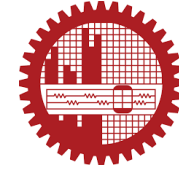
LANGUAGE

English and Bangla

CERTIFICATE

Certificate of Participation will be provided.

Short Course on Python Bootcamp

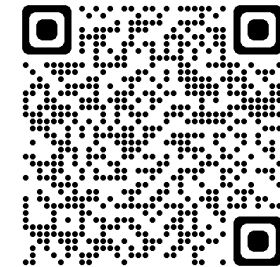


07 - 09 February 2025
BUET, Dhaka

Organized by

Directorate of Continuing Education (DCE)
Bangladesh University of Engineering and Technology
Dhaka-1000

[For registration in this course, please scan](#)



Python is renowned for its simplicity, readability, and vast ecosystem of libraries and tools, making it an ideal choice for beginners and seasoned developers alike. In this intensive Bootcamp, we'll take you from the basics of Python syntax, equipping you with the knowledge and confidence to tackle real-world Programming Challenges.

In this course, we will work with fundamental data structures and control flow, create and use functions to modularize code, learn the Object Orientated Programming (OOP) principles, explore libraries like NumPy, Pandas and related modules and external APIs.

Throughout this hands-on course, you'll learn by doing, with a series of interactive exercises to reinforce your understanding of each concept. From writing your first Python script to building your own custom classes and applications, you'll gain practical experience that will set you on the path to becoming a proficient Python programmer. You'll learn not only how to write code, but also how to think like a programmer, breaking down problems into manageable tasks and developing elegant solutions.

Let's dive in and start coding with confidence!

WHO SHOULD ATTEND?

The course is designed for individuals who are new to programming or have limited experience with Python. It is suitable for:

- Entrepreneurs or Professionals aiming to analyze data or automate tasks
- Students or Professionals to be proficient in Programming Language and Python.
- Professionals working in banking and finance
- Anyone seeking to transition into a career in software development, data analysis, or machine learning.

PROGRAM OVERVIEW

- **Introduction to Python and IDE**
Programming Language Overview
Python Installation
IDE or Intro to Notebook
- **Basic Data Structures and User inputs**
Numbers, Booleans, String etc.
List, Tuple, Dictionary etc.
Comments
- **Control Flow and Functions**
Conditional Statements
Loop Statements
User Defined and Built in Functions
- **OOP and Python Libraries**
Intro to OOP
OOP in Python
Libraries: NumPy, Pandas, Matplotlib
Good Practices

VENUE

Directorate of Continuing Education (DCE), 3rd Floor, Institute Building, BUET, Polashi, Dhaka-1000. (Near Dr. M A Rashid Student Hall, BUET and BUET Gymnasium)

REGISTRATION FEE

BDT 15000/- per Person (Tk. Fifteen Thousand Only)
The fee will cover the Bootcamp kit.

Participants are required to bring laptops with PYTHON pre-installed.

PAYMENT

Registration Fee is to be paid in advance payable through Pay Order/Demand Draft (DD) in favor of **Director, BRTC, BUET** or electronically deposited at Savings **Account No. 4404034173888**, **Account Name:** Director, Directorate of Continuing Education (DCE) Sonali Bank Ltd., BUET Branch, Dhaka.

Seats are limited and the selection procedure will be First Come First Serve basis.

REGISTRATION FORM

**Short Course on
Python Bootcamp
DCE, BUET**

Please complete the registration form in BLOCK LETTERS and return it to the address overleaf.

Name: _____

Affiliation: _____

Company Name: _____

Address: _____

Cell Phone: _____

Email: _____

Payment:

- Pay Order/ Demand Draft (DD)
- Online Banking

Please attach the original copy of the payment.

Details of Pay Oder/Demand Draft:

Signature: _____

Date: _____



Python Bootcamp

Date: 07 – 09 February 2025

Directorate of Continuing Education (DCE)
Bangladesh University of Engineering and Technology (BUET)
Tentative Program Schedule

Day	Time	Event	Resource Person	
Day-01				
Day 01: 07 Feb 2025 (Friday)	08:45 AM - 09:00 AM	Registration		
	09:00 AM - 11:00 AM	<ul style="list-style-type: none"> ➤ Motivation for Learning Python ➤ Introduction to Python ➤ Introduction to Notebook ➤ Variables in Python <ul style="list-style-type: none"> • Numbers • Booleans • String 	Dr. Sohel Rahman Professor CSE, BUET	
	11:00 AM - 11:15 AM	Tea Break & Networking		
	11:15 AM - 12:45 PM	<ul style="list-style-type: none"> ➤ Comments ➤ Functions 	Dr. Sohel Rahman Professor CSE, BUET	
	12:45 PM - 02:30 PM	Lunch & Prayer Break		
	02:30 PM - 03:00 PM	<ul style="list-style-type: none"> ➤ User input 		
	03:00 PM - 04:30 PM	<ul style="list-style-type: none"> ➤ List ➤ Tuple 		
Day-02				
Day 02: 08 Feb 2025 (Saturday)	09:00 AM - 11:00 AM	<ul style="list-style-type: none"> ➤ Set ➤ Dictionary ➤ Conditional Statement 	Dr. Sohel Rahman Professor CSE, BUET	
	11:00 AM - 11:15 AM	Tea Break & Networking		
	11:15 AM - 12:45 PM	<ul style="list-style-type: none"> ➤ Conditional Statement (Contd.) ➤ Loop Statement 		
	12:45 PM - 02:00 PM	Lunch & Prayer Break		
	02:00 PM - 02:30 PM	<ul style="list-style-type: none"> ➤ Loop Statement (Contd.) 		



Python Bootcamp

Date: 07 – 09 February 2025

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Bangladesh University of Engineering and Technology (BUET)
Tentative Program Schedule

Day	Time	Event	Resource Person
	02:30 PM - 04:00 PM	<ul style="list-style-type: none">➤ Built-in Functions in Python<ul style="list-style-type: none">• range• enumerate• zip• filter• map	
Day-03			
Day 03: 09 Feb 2025 (Sunday)	09:00 AM - 11:00 AM	<ul style="list-style-type: none">➤ Module in Python<ul style="list-style-type: none">• Math• Random• Datetime➤ Python Installation➤ Introduction to OOP	Dr. Sohel Rahman Professor CSE, BUET
	11:00 AM - 11:15 AM	Tea Break & Networking	
	11:15 AM - 12:45 PM	<ul style="list-style-type: none">➤ OOP in Python	
	12:45 PM - 02:00 PM	Lunch and Prayer Break	
	02:00 PM - 02:30 PM	<ul style="list-style-type: none">➤ OOP in Python (Contd.)	
	02:30 PM - 04:00 PM	<ul style="list-style-type: none">➤ Python Libraries<ul style="list-style-type: none">• NumPy• Pandas➤ Concluding Remarks	

