



DIRECTORATE OF  
**CONTINUING EDUCATION**

BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY (BUET)

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Date: 13/11/2024

**Announcement of Short Course on “Python Bootcamp”, 07 - 09 February 2025 organised by the  
Directorate of Continuing Education (DCE), BUET**

Dear Valued Recipient,

We have the pleasure of informing you that a 3 days short course on ‘Python Bootcamp’ is going to be organized by the Directorate of Continuing Education (DCE), on 07 – 09 February 2025 (Friday: 09:00 AM - 04:00 PM, Saturday: 09:00 AM - 04:00 PM, Sunday: 09:00 AM - 06:00 PM).

Python is a highly sought-after and versatile programming language used across industries, from data analysis and industrial automation to machine learning and web development. This boot camp provides a practical and efficient learning experience, teaching you Python fundamentals, data manipulation and analysis techniques, libraries and module modification for workflow improvement, and even exploring real-world Python applications.

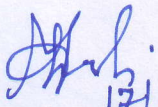
The registration fee for this short course is **TK. 15000/- (Taka fifteen thousand only)** as per person to be paid in advance, through Pay-Order or Demand draft, in favor of “**Director BRTC BUET**”. Course registration fee may also be electronically deposited at Savings **Account No. 4404034173888**, (Routing Number – 200270522) Account Name: **Director, Directorate of Continuing Education (DCE), Sonali Bank Ltd., BUET Branch, Dhaka**. Course Fee includes all costs of printed lecture instructions, comprehensive materials, refreshments, certificates, etc., excludes VAT & TAX. Seats are limited and the application /nomination would be selected on a first-come, first-served basis.

**Registration Deadline is 28 January 2025 (Tuesday).**

For further information, please contact the DCE office, BUET, Cell: **01836257866**, Tel: **58610738**, PABX. 55167100 Ext. 7848, E-mail: [info@dce.buet.ac.bd](mailto:info@dce.buet.ac.bd). You may also visit our official website: <https://dce.buet.ac.bd>

We would appreciate it if you could kindly circulate, participate and/or nominate the concerned official(s) from your esteemed organization in this proposed short course.

Thank You

  
17/11/2024

**Prof. Dr. Mohammad Ali**  
Director, Directorate of Continuing Education (DCE)  
Bangladesh University of Engineering and Technology

For Registration in this Course,  
Please scan below



## CONTACT

### Director

**Directorate of Continuing Education (DCE)**  
BUET, Dhaka-1000

Tel: 02 58610738

PABX: 02 55167228-57 ext. 7848, 7452

Cell: 01836257866

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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)

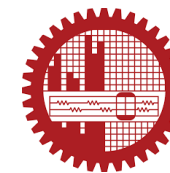
## LANGUAGE

English and Bangla

## CERTIFICATE

Certificate of Participation will be provided.

## Short Course on Python Bootcamp

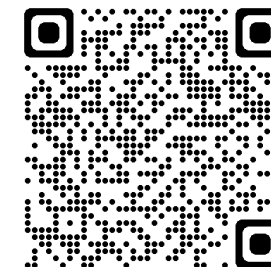


07 - 09 February 2025  
BUET, Dhaka

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



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

