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ISLAMIC UNIVERSITY OF TECHNOLOGY
ORGANISATION OF ISLAMIC COOPERATION
Board Bazar, Gazipur-1704, Dhaka, Bangladesh

Short Course on

Introduction to Python for Business Research

Date: 10th -12th July 2024

ORGANISED BY

**Department of
Business and Technology
Management (BTM)**

AACSB

**Business
Education
Alliance**

Member



<https://btm.iutoic-dhaka.edu/>
www.iutoic-dhaka.edu

INTRODUCTION

Islamic university of Technology (IUT) is a subsidiary organ of the Organisation of Islamic Cooperation (OIC). The Department of Business and Technology Management (BTM) is the newest and unique department of the Islamic University of Technology (IUT). In addition to its the regular academic programs, BTM arranges short courses, seminars, and workshops as part of IUT's statutory obligations to the OIC in developing human resources in science, business, and technologies. Business research is increasingly reliant on technical skills such as programming and data analysis. Python, a versatile and powerful programming language, is widely used in various research activities for its simplicity and effectiveness in handling data-driven tasks. In response to the growing need for the applications of Python in business research, the Department of Business and Technology Management organises short course on "Introduction to Python for Business Research" to provide creative and simplified approaches to help researchers understand and apply Python programming to achieve scientific and practical objectives in business research.

COURSE OBJECTIVES

1. Introduce participants to the basic syntax and concepts of python programming.
2. Provide a solid foundation in data structures, including lists, tuples, dictionaries, and sets.
3. Familiarize participants with statistical analysis with python and decision-making process.
4. Teach participants how to use machine learning methods for business and research.
5. Explore practical applications of python in data analysis, visualizing and business analysis.

COURSE FORMAT

Duration: 3 days

Delivery: Practical sessions with instruction, interactive discussions, and hands on coding exercises.

Resources: Lecture slides, coding assignments, code examples, and project work.

Evaluation: Quizzes, group project and presentation.

COURSE OUTLINE

The key topics to be covered

Day 1

- Introduction to python
- Basic syntax and data types
- Data structures
- Statistical analysis with python
- Data visualization with matplotlib and seaborn

Day 2

- Machine learning fundamentals for business research
- Showcasing the application of python in research across various domains (e.g., social sciences, economics)
- Hands-on exercises and projects to reinforce concepts learned throughout the course
- Guidance on applying python to specific research projects and addressing research questions

Day 3

- Fundamentals of topic selecting for effective business research
- Research design and selection of journals
- Design appropriate method for research
- Group project
- Presentation and feedback

VENUE AND ACCOMMODATION

The short course will be held in the premises of IUT campus at Board Bazar, Gazipur, Bangladesh. Accommodation will be arranged upon necessity and availability. The necessity of accommodation should be informed to the course coordinator by 30th June 2024.

IMPORTANT DATES

- Registration Deadline : 23rd June 2024
- Registration Confirmation : 25th June 2024
- Registration Fess Payment : 30th June 2024
- Accommodation Request : 30th June 2024

TARGET AUDIENCE

- Beginners with little to no prior programming experience.
- Students, researchers, academicians, professionals, and enthusiasts looking to learn python for personal or career development.
- Anyone interested in gaining practical programming skills applicable to various domains.

REGISTRATION PROCEDURE

Online registration and nomination.

The interested participants need to fill the online registration form available at the IUT website <https://www.iutoic-dhaka.edu/>. And submit it by 23rd June 2024. Participants need to fill the nomination form available at the IUT website and get it approved by the respective authority of the home institution. The scanned copy of the filled-up nomination form should be attached with the online registration form. The selected participants will be notified via email by 25th June 2024.

REGISTRATION FEES

Participant Type	Amount	Facilities Included
International Participant	USD 100	Registration Fees, Food, Necessary course materials, Accommodation (Single occupancy within University Facility).
Local Participant (with accommodation)	BDT 7000	Registration Fees, Food, Necessary course materials, Accommodation (Double occupancy within University Facility).
Local Participant (without accommodation)	BDT 6000	Registration Fees, Food & Necessary course materials.

Online Registration

<https://forms.gle/RA6AZED8uLYkhHo8>

