



Dr B R Ambedkar

National Institute of Technology

Jalandhar - 144011



**BASIC TO ADVANCE**

**Two Weeks Short Term Course**

**(March, 7<sup>th</sup> – 18<sup>th</sup>, 2022)**

**ONLINE**

*Organized by :*

*Centre for Continuing Education*

# INTRODUCTION OF THE PROGRAM



**Python** is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

Python is dynamically-typed and garbage-collected. It supports multiple programming paradigms, including structured (particularly, procedural), object-oriented and functional programming. It is often described as a "batteries included" language due to its comprehensive standard library.

## CONTENTS TO BE COVERED

This course will cover the following contents during the period of two weeks:

<b>Basics of Python</b>	<b>Variable, Data Types, Different Statements</b>	<b>Control Statements and Looping Statements</b>
<b>The Sequences, String and String Functions</b>	<b>List and its functions</b>	<b>Tuples and its Functions</b>
<b>Dictionary and their functions</b>	<b>Set and other on ordered lists</b>	<b>Fundamental Functions, Passing Arguments</b>
<b>Lambda Functions and Module</b>	<b>Methods in classes</b>	<b>OOPS Principles, Concepts of classes and objects</b>
<b>Inheritance and Method overriding</b>	<b>Packages</b>	<b>Basics of Numpy &amp; Numpy methods</b>
<b>Pandas Library</b>	<b>Data Frame handling with Pandas</b>	<b>Data visualization using Matplotlib.</b>
<b>Advance Libraries of Python for Machine Learning</b>	<b>Exploring Data Science using Python</b>	
<b>Hands on:</b>	<b>Google Collab, Markdown (Jupyter Notebook), Version control with GIT and GitHub</b>	

## **PARTICIPANT'S PROFILE**

- Students / Research Scholars from Academic Institutions
- Professors/ Assistant Professors/ Associate Professors/ others from Educational Institutes/ University
- Professionals to enhance more knowledge in this field.

## **DATE, TIME & MODE**

<b>DATE</b>	: <u><b>March 07<sup>th</sup> – 18<sup>th</sup>, 2022</b></u> (Two Weeks)
<b>TIME:</b>	: <u><b>06:00pm – 08:00pm</b></u> (2 hours per day)
<b>MODE OF LECTURE</b>	: <u><b>Online</b></u>

## **IMPORTANT DATES**

<b>Registration Opens</b>	: <b>February 04<sup>th</sup>, 2022.</b>
<b>Registration Closes</b>	: <b>February 28<sup>th</sup>, 2022</b>
<b>Commencement of Course</b>	: <b>March 07<sup>th</sup>, 2022</b>
<b>Course Ends</b>	: <b>March 18<sup>th</sup>, 2022</b>

## **REGISTRATION FEE**

<b>Sr No.</b>	<b>Registration Type</b>	<b>Registration Fee (₹)*</b>
1.	Students	1500
2.	Research Scholars	2000
3.	Faculty/Professionals	3000

**\*(GST @18% is applicable for external candidates)**

## **REGISTRATION AND PAYMENT LINK**

Click below for the registration and payment link:

***CLICK ME TO JOIN THE COURSE***

## INSTRUCTIONS

- Participants have to attend all the online lectures, Q& A and the hands on session through Google Meet.
- It is mandatory to fill the attendance daily
- The participants have to do self-practice by themselves. Mentors will be available to solve the queries and provide assistance during practice.
- Feel free to contact us at : [stc@nitj.ac.in](mailto:stc@nitj.ac.in)

## CERTIFICATION

**E-Certificates will be issued by NIT Jalandhar to those participants who have attended the program with minimum 90% attendance and scores minimum 60% marks in the test conducted at the end of the online Short Term Course.**

## ABOUT DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR, PUNJAB



Dr B R Ambedkar National Institute of Technology was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed University) by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high quality education in Engineering, Technology and Sciences to produce competent technical and scientific manpower for the country.

## **ABOUT CENTRE FOR CONTINUING EDUCATION**

(CCE) is established in the Institute to cater the need of the society. The Centre will provide a multidisciplinary platform for policy discourse. This will bring researches, practitioners and interested members of our community together in order such burning issues.

The CCE aims to foster new relationships and interactions among public officials, civil society and the private sector in the search for creative solutions to public policy problems take management decision for development of society.

The CCE may engage government agencies, national and international academic institutions, NGOs, industries, and individuals to promote management education.

The Centre will cover the wide range of short and long-term program to be offered to all citizens of India and Abroad.

### **ORGANIZING TEAM**

**COORDINATORS** : Dr S K Mishra

: Dr Prashant Kumar

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**For Any Query, Email us at :**

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**Dr Prashant Kumar: +91-83519-76199**

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