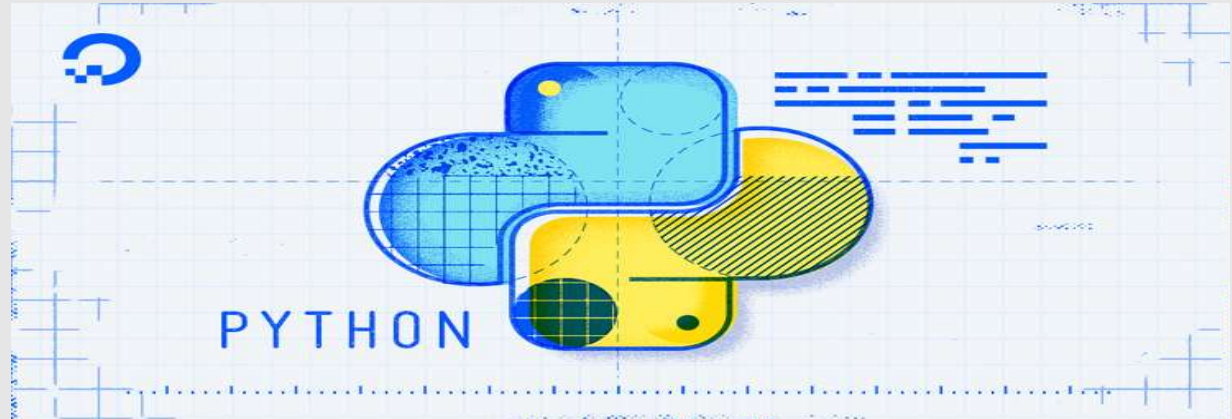**Organized By**

Department of Computer Applications
National Institute of Technology
Tiruchirappalli, Tamil Nadu, India -620015

Coordinators

Prof. (Dr.) P.J.A. Alphonse
Dr. (Mrs.) B. Janet
Dr. (Mrs.) S. Sangeetha
Dr. Jitendra Kumar
Dr. Ghanshyam S. Bopche

Two-Week Short-Term Course on
Python Programming and Data Science
(July 18-30, 2022)

About the Institute

The National Institute of Technology, Tiruchirappalli, started in 1964 with a view to cater to the needs of manpower in technology for the country. NITT is ranked first among all 31 NIT's and ninth among all the Technical Institutes in India by the National Institute Ranking Framework (NIRF). NITT is witnessing exponential growth in R&D activities. Apart from a large consultancy work undertaken by the departments, academic research also gains its momentum day by day. NITT has signed several MOUs with industries and institutions in India and abroad to promote collaborative research and consultancies.

About the Department

The Department of Computer Applications is one of the pioneering departments of the institution that offers Information Technology courses. The department currently offers three full-time post-graduate programs: three-year Master of Computer Applications (MCA), two-year Master of Science (M.Sc.) in Computer Science and two-year M. Tech. in Data Analytics. The department comprises of fourteen faculty members actively involved in research besides teaching.

About the Course

Python is one of most popular programming language and its usage is incredibly growing day by day. This course will introduce the learner to the basics of the Python programming environment, including fundamental Python programming for problem solving. The course will also introduce data manipulation and data analysis techniques using the popular Python libraries for data science.

Contents

➢ Problem solving fundamentals
➢ Python elementary programming
➢ Data types: String, List, Tuple, Dictionary, and Set
➢ Control structures
➢ Python functions, recursion, and Lambda functions
➢ Files and exception handling
➢ Object-oriented programming concepts
➢ Python modules and packages
➢ Data science libraries: NumPy, Pandas, Matplotlib, and Scikit-learn

Target Audience

Under-graduate/Graduate Students, Research Scholar, Faculty Members, Industry Professionals

Resource Persons

Industry Professionals, Faculty members from reputed Technical Institutions and Universities.

Course Fee: Only 4000 ₹ including GST

Important Dates:

➢ Last date for Online Registration: 15ᵗʰ July 2022
➢ Date of Intimation: 17ᵗʰ July 2022

Note: Maximum number of participants to be allowed: 75

Registration Link:

https://forms.gle/omF3iKoyNWwsvSUA7

SBI Collect Payment Link:

https://www.onlinesbi.com/sbicollect/icollecthome.htm

Options to be selected while making payment:

• **State of Corporate / Institution**: Tamil Nadu
• **Type of Corporate / Institution**: Educational Institutions
• **Educational Institutions Name**: Conference and Workshop NIT Trichy
• **Payment Category**: 2022 CA PPDS

Address of Communication/Venue:

Department of Computer Applications
National Institute of Technology
Tiruchirappalli, Tamil Nadu, India - 620015
Email Id: dca.nitt@gmail.com

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