Python is not only the most popular language for learning programming, but also a preferred language for programming intelligent and data intensive systems. This course will first cover all the basic features of Python and will gradually move towards more advanced parts of Python programming. We will show how Python can be used to solve data science and machine learning problems with an industrial perspective. This course does not assume any prior programming experience or exposure and will be useful to anybody interested in learning programming and solving real-world programming problems.

**Speakers**
- Dr. Amey Karkare, IIT Kanpur
- Mr. A Allahbaksh, Infosys
- Dr. Ashish V Tendulkar, Google Research
- Dr. Atul Gupta, IIITDM Jabalpur

**Key Features**
- Live online lecture sessions by subject experts.
- Online lab and training sessions.
- Course portal and access to course material, tutorials, and practice notes, exercises.
- Continuous evaluation and feedback on participant's progress during the course.
- Follow-up sessions and discussion forums on research problems and internships.
- Question answers and discussion in both online and offline mode.

**Course Contents**
- Introduction & Basics of Python
- Programming, Basic Data Types, Strings
- Decision Statements, Control Statements, Loops
- Functions, Recursion
- Lists, Tuples, Dictionaries and Sets
- Exception handling, File Handling
- Modules and Packages, Popular packages like NumPy, Pandas, Matplotlib, NLTK
- Object-oriented programming in Python
- Machine Learning with Python
- Industry Perspective of Python and Applications

**Course Fee Details**
- Academic (student/faculty): 500 INR
- Industry People/Other: 1000 INR
- Foreign Participants: 4000 INR

**Online payment details**
- Bank Name: Indian Bank/Allahabad Bank
- Account Name: NIT Patna
- Account No.: 50380476798
- IFSC Code: IDIB000B810

**Last Date for Registration**: July 20, 2021

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