SVKM's Narsee Monjee College of Commerce and Economics

(Autonomous)

Notice

DATA SCIENCE & MACHINE LEARNING USING PYTHON- CERTIFICATE COURSE

The BSC IT Department is facilitating a Certificate Course in 'Data Science & Machine Learning using Python' for students across all SVKM Colleges.

This course is ideal for **All Graduate/Undergraduate/Diploma holder Students of any stream having knowledge of Basic IT and Mathematics.**

The Course Fee is Rs. 5500 (Five Thousand Five Hundred Only) The 30-hour course will comprise of 15 sessions of direct teaching of two hours each on Saturdays and Sundays commencing from Saturday, 1st January 2022 on MS Teams.

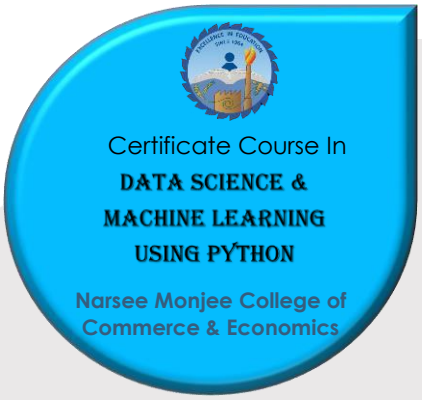
The Course Outline is attached to this Notice.

Ms. Anupama Jawale, will be the coordinating person for this course. For further queries on the course, please email her: anupama.jawale@nmcce.ac.in.

Limited seats available.

Last date for registration and fee payment is Friday, 24th December 2021.

For registration and fee payment, please email : sandeep.sawant@nmcce.ac.in



Principal

Dr. Parag Ajagaonkar

basics of Python Programming Language, the most preferred language for implementation of Data Science and Machine Learning Techniques. It covers key concepts like Data Insights, Statistics, Machine Learning and its application in various industry area.

CONTACT

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DATA SCIENCE & MACHINE LEARNING USING PYTHON

Stay ahead in technology with this Certificate Course in Data Science & Machine Learning using Python in partnership with Narsee Monjee College of Commerce & Economics. This certification course are designed to produce the best outcomes through Project based flexible online Learning.

WHAT IS THIS COURSE ABOUT

Data science is an interdisciplinary field focused on extracting knowledge from data sets, which are typically big data, whereas Machine Learning is a branch of artificial intelligence based on the idea that systems can learn from data, identify patterns and make decisions with minimal human intervention. This course covers

CERTIFICATE COURSE IN DATA SCIENCE & MACHINE LEARNING USING PYTHON

DURATION AND FEES

- **30 Hours Training Program spanned over 8 Weeks**
- **Dates From 1st Jauary 2022 - 27th February 2022**
- **Online Mode of Conduct – 2-4 Hours of Training / week plus Self Study**
- **Suitable Evening Timings for Working Professionals / Full Time Students**
- **Course Fee INR 5500/-**

- Experienced National/International Trainers from Industry/Renowned Universities

ELIGIBILITY

Graduate/Undergraduate with basic knowledge of IT and Mathematics. (Across all SVKM Institutes)

SKILLS TOUGHT

- **Module 1: Basics of Python (Duration 4 Hrs)**
- **Module 2: Advanced Python (Duration 8 Hrs)**
- **Module 3: Data Science (Duration 6 Hrs)**
- **Module 4: Machine Learning (Duration 6 Hrs)**
- **Module 5: Visualization, Projects (Duration 6 Hrs)**

EVALUATION AND CERTIFICATE

Assignments, Project & End Examination

Earn the NM Badge after completion of Training Earn the Certificate after Passing the Examination

Syllabus and Evaluation Pattern of DATA SCIENCE & MACHINE LEARNING USING PYTHON

Syllabus

MODULE I – BASICS OF PYTHON

Introduction , Modules, Comments & Pip , Variables & Data Types , Strings , Lists & Tuples , Dictionary & Sets , Conditional Expressions, Loops in Python

MODULE II – ADVANCED PYTHON

Functions & Recursion, Project 1 - Snake, Water, Gun Game,
File I/O, Object Oriented Programming, Inheritance, Project 2 - The Perfect Guess
Python, Pycharm & Anaconda Installation & Intro to Jupyter Notebook , Python Tokens: Keywords, Identifiers, Literals & Operators , Data Structures in Python: Tuple, List, Dictionary & Set , Python Object-Oriented Programming: Class & Object& Inheritance in Python , Libraries in Python , Python Numpy , Python Pandas Project 3 - Library Management System

MODULE III DATA SCIENCE

Introduction to Data Science , Exploratory Data Analysis, Statistics For Data Science, Linear Regression , Logistic Regression , Time Series Analysis

MODULE IV – VISUALIZATION & MACHINE LEARNING

Machine Learning, Supervised Learning , Unsupervised Learning , Data Visualization with Python: Matplotlib Data Visualization with Python: SeaBorn, Solving real world problems, Project

Assessment & Evaluation

Sr. No	Title	Duration	Maximum Marks
1.	Assignment 1 – Case Study on Python Programming	3 Hours	20
2.	Assignment 2 Case Study on Data Science	3 Hours	20
3.	Assignment 3 Case Study on Machine Learning	3 Hours	20
4.	End Examination MCQ Based	1 Hours	40
5.	Project Report	--	50
		10 Hours	150