



National Institute of Electronics & Information
Technology Near IIT Patna, Amhara, Bihta,
Patna(Bihar) -801106

Details of the Course

Name of The Course: Internship in Data Science using Python Programming

Duration (in Hrs.): 40

Fee (in Rs.): Rs 1983/-

Eligibility: Diploma/B.Sc./B.Tech/ In Electronics, Electrical, Instrumentation Engineering, Computer Science, IT or its equivalent. (Completed or Pursuing).

Course Coordinator: Ankit Kumar (Scientist B)

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Apply Online:

http://nielitpatnaonline.in/onlinecourse/Certificate_Course.php?fbclid=IwAR3a0xB-VpOGOnUhGwfQsdPuDrQvsIRr56stjObTfKq8YN3PUJGEEC1qqek

Course Content:

Sl .No	Topic	Subtopic	Duration
1	Introduction to Python Programming	Python Programming fundamentals, Installing Python IDE, Data Types, Operators and expressions, Variable assignments, Mutable and Immutable data, String, List, Tuple, Dictionary, Properties and Methods , Python Statements, If, elif, else, for, while, list comprehension	9
2	Python Methods and Functions	Functions in Python, Variable argument function, args, kwargs, recursive function, inbuilt functions , Lambda Expression , Map, Filter, Tuple Unpacking	3
3	Python as Object oriented programming	Oops concepts, Python as oops, Attributes and class, Methods, Inheritance	3
4	Python Modules and Packages	Modules and Packages in Python, Collection, OS module, Math,	3

		Random, Regular Expressions	
5	Python Packages for Data Science	Python Packages for Data Science (Numpy, Pandas and Matplotlib), Properties, Methods, Functions	6
6	Data Preprocessing	Data Preprocessing, importing dataset, Missing Data, Splitting data and Feature scaling	2
7	Machine Learning	Introduction to machine learning, Machine learning approaches, Basics of Statistics and Probability, Regression method, Simple linear regression, Polynomial regression, Decision Tree Regression, Classification method, Logistic Regression K-NN, SVM, Clustering	14