

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

Details of the Course

Name of The Course: Industrial Training & Internship in Data Analytics

Duration (in Hrs.): 40(4 weeks)

Course Fee-1983/-

Eligibility: B. Tech in Electronics, Electrical, Instrumentation Engineering, Computer Science, IT or its equivalent/MBA/BBA (Completed or Pursuing)/BCA/MCA/Diploma in CS/ECE.

Course Content:

Sl	Topic	Subtopic	Duration
.No			(in Hrs)
1	Fundamentals of Data Analytics	Understanding the role of data analytics in	05
		business, Overview of key concepts and	
		terminology, Importance of data-driven	
		decision-making, Descriptive and Predictive	
		Data Analytics, Business analyst life cycle,	
		case studies, and projects	
2	Python Programming for Data Analysis	Python Programming fundamentals,	15
		Installing Python IDE, Data Types,	
		Operators and expressions, Variable	
		assignments, Mutable and Immutable data,	
		String, List, Tuple, Dictionary, Properties	
		and Methods, Python Conditional	
		Statements, Modules and Packages in	
		Python, Python Packages for Data Analytics	
		(Numpy, Pandas matplotlib and Seaborn),	
	D. A. L. C. T. L.	Scikitlearn, Data Preprocessing Techniques	10
3	Data Analytics Tools	Introduction to Data analytics tools, Google	13
		Data Studio, Metabase, Data Cleaning in	
		Excel, Data Validation and Conditional	
		Formatting, Pivot Tables & Pivot Charts,	
		Basic Data Visualization in Excel,	
		Introduction to Excel Power Query	
		Introduction to Databases and SQL, Writing	
		SQL Queries to Extract Data, Filtering and	
		Sorting Data . Aggregation and Grouping	
		(GROUP BY, HAVING), Joins (INNER,	
		LEFT, RIGHT, FULL), Subqueries and Common Table Expressions (CTEs),	
		Apache Spark, Spark SQL, Creating tables and querying data, SQL syntax and	
		functions, Introduction to PySpark Using	
		Python with Spark, Spark Dataframe	
		operations	
4	Tableau	Data visualization, Tableau Basics, Creating	7
4	Taurcau	sheets, Data Extraction, Data Control, Time	'
		sheets, Data Extraction, Data Control, Time	

Series, Aggregation, Maps, Plots, Filter,
Dashboard, Joining, Blending, Data
Interpreter, Clustering, Modelling, Data
cleansing, Structure, Pivots, Tables