# Oranium Tech
## SOFTWARE TRAINING & PLACEMENTS

# DATA
# ANALYST

## COURSE SYLLABUS

# 2023

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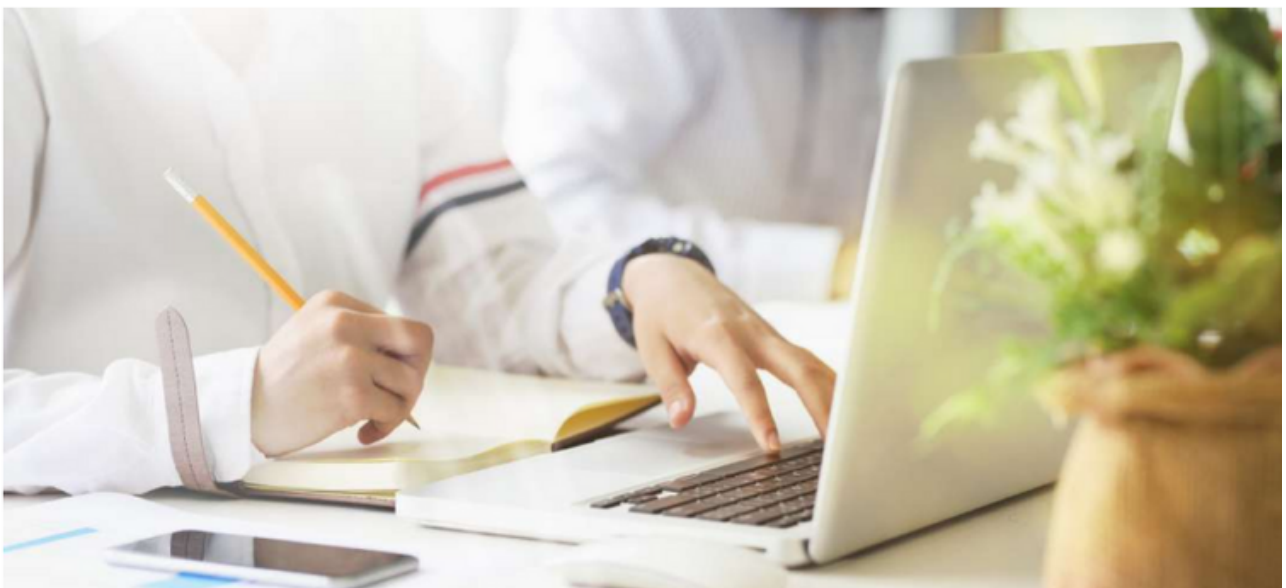www.oraniumtech.com

# ABOUT ORANIUM TECH

**Oranium Tech** is a one-stop solution for fast and hassle-free software training and placements. Our mission is to be the eminent source of learning for aspirants in Information Technology by providing the finest learning experience.

**Oranium Tech** is a leading software training institute that offers a wide range of IT courses to students and professionals looking to advance their careers in the tech industry. Founded by **Mr. Dinesh Kumar G** in 2018, the institute is committed to providing quality training and placement assistance to both IT and non-IT professionals, with a focus on helping individuals from diverse backgrounds, including married women and those with lower salaries, succeed in the field.

**Oranium Tech** places over 1000+ students per year in IT jobs. In addition to its course offerings, the institute also provides communication skills classes, personality, and logical training to help students build confidence in interviews. The institute offers a variety of training options, including one-on-one, one-to-group, and corporate training, with both virtual and in-person classroom instruction available. At **Oranium Tech**, our goal is to provide quality training to all students and help them achieve financial stability and success in the IT industry.

- Affordable Fees
- Flexible Class Timings
- Hands-on Training
- Interview Preparation
- Placement Assistance
- Unlimited Access to the Recording

# DATA ANALYST COURSE

Master Data Analysis skills and take your career to the next level!

Oranium Tech introducing some amazing content on Data Analyst. Data analysis involves collecting, organizing, and interpreting large sets of data to extract meaningful insights and make informed decisions. It is a rapidly growing field with a high demand for professionals who can work with data effectively.

To become a data analyst, you'll need a combination of technical skills and knowledge in areas such as statistics, programming, and data visualization. There are various courses available online and in person that can help you acquire these skills.

**Module 1**

**Introduction to Data Analytics**

- Introduction to Data Analytics

**Module 2**

**SQL for Data Analysis**

- Introduction to SQL
- Database Normalization and Entity Relationship Model
- SQL Operators
- Working with SQL: Join, Tables, and Variables
- Deep Dive into SQL Functions
- Working with Subqueries
- SQL Views, Functions, and Stored Procedures
- Deep Dive into User–defined Functions
- SQL Optimization and Performance
- Advanced Topics
- Managing Database Concurrency
- Programming Databases Using Transact–SQL
- Microsoft Courses: Study Material

**Module 3**

**Python for Data Science**

- Introduction to Data Science using Python
- Python basic constructs

- Maths for DS-Statistics & Probability
- OOPs in Python (Self-paced)
- NumPy for mathematical computing
- SciPy for scientific computing (Self-paced)
- Data manipulation
- Data visualization with Matplotlib
- Machine Learning using Python
- Supervised learning
- Unsupervised Learning
- Python integration with Spark (Self-paced)
- Dimensionality Reduction
- Time Series Forecasting

**Module 4**

**Tableau Desktop 10**

- Introduction to Data Visualization and The Power of Tableau
- Architecture of Tableau
- Charts and Graphs
- Working with Metadata and Data Blending
- Advanced-Data Manipulations
- Working with Filters
- Organizing Data and Visual Analytics
- Working with Mapping
- Working with Calculations and Expressions
- Working with Parameters
- Dashboards and Stories
- Tableau Prep
- Integration of Tableau with R

**Module 5**

**Power Bi**

- INTRODUCTION TO POWER BI
- DATA EXTRACTION
- DATA TRANSFORMATION SHAPING & COMBINING DATA
- DATA MODELLING & DAX
- DATA VISUALIZATION WITH ANALYTICS

- POWER BI SERVICE (Cloud), Q & A, AND DATA INSIGHTS
- POWER BI SETTINGS, ADMINISTRATION & DIRECT CONNECTIVITY
- EMBEDDED POWER BI WITH API & POWER BI MOBILE
- POWER BI ADVANCE & POWER BI PREMIUM

**Module 6**

**Advanced Excel**

- Entering Data
- Referencing in Formulas
- Name Range
- Understanding Logical Functions
- Getting Started with Conditional Formatting
- Advanced-level Validation
- Important Formulas in Excel
- Working with Dynamic table
- Data Sorting
- Data Filtering
- Chart Creation
- Various Techniques of Charting
- Pivot Tables in Excel
- Ensuring Data and File Security
- Getting Started with VBA Macros
- Ranges and Worksheet in VBA
- IF condition
- Loops in VBA
- Debugging in VBA
- Dashboard Visualization
- Principles of Charting
- Getting Started with Pivot Tables
- Statistics with Excel

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**Interested to learn? Get in touch with us**

**FOR ONLINE & OFFLINE TRAINING CALL / WHATSAPP: +91 8072363772**

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