

Emerging Technologies

International Business Analytics Professional

Curriculum

Program Outline :

Module 1: Fundamentals of Business Analytics

1. Introduction to Business Analytics

- Core principles and strategies of business analytics.
- Understanding the importance of data in decision making.
- Key components of an effective business analytics strategy.

2. Statistical Analysis and Data Management

- Performing statistical analysis for data-driven decision making.
- Managing and organizing data for analysis.
- Best practices for data management and quality assurance.

Module 2: Advanced Analytics Techniques

3. Predictive Analytics and Modeling

- Building and evaluating predictive models.
- Understanding regression analysis and classification techniques.
- Best practices for model validation and deployment.

4. Machine Learning with Python and R

- Implementing machine learning algorithms and models using Python and R.
- Exploring supervised and unsupervised learning methods.

- Case studies and real-world applications.

5. Data Visualization Techniques

- Creating and interpreting visualizations to represent data.
- Using tools like Tableau, Power BI, and Matplotlib.
- Best practices for data visualization and storytelling.

Module 3: Data Visualization and Business Intelligence

6. Business Intelligence Systems

- Developing and using business intelligence tools and systems.
- Best practices for designing BI dashboards and reports.
- Understanding the role of BI in strategic decision making.

7. Advanced Data Visualization

- Advanced techniques for data visualization and storytelling.
- Creating interactive and dynamic visualizations.
- Using advanced visualization tools and frameworks.

Module 4: Machine Learning and Data Science Applications

8. Machine Learning Applications

- Applying machine learning techniques to solve business problems.
- Understanding the lifecycle of a machine learning project.
- Implementing machine learning solutions for real-world scenarios.

9. Data Science Projects

- Designing and implementing data science projects.
- Collaborating with peers and mentors to solve complex challenges.
- Presenting and communicating data science findings.

Elective Modules

10. Data Ethics and Privacy

- Ethical considerations, privacy laws, and compliance strategies.

11. AI Integration for Business Analytics

- Implementing AI solutions in business analytics.

12. Big Data Solutions

- Managing and analyzing big data applications.

13. IoT Analytics

- Integrating and analyzing IoT data for business insights.

14. Business Analytics Project Management

- Leading analytics projects and ensuring successful delivery.

Websites:

- <https://chools.in/>
- <https://ramaqchools.com/>
- <https://www.choolsgroup.com/>