Emerging Technologies

Certified Information Management Professional (CIMP)
Master Data Management Program

<u>Curriculum</u>

Program Outline :

Module 1: Fundamentals of Master Data Management

1. **Introduction to Master Data Management**

   o   Core principles, tools, and industry applications.

2. **Basics of Data Governance**

   o   Establishing data policies and standards.

3. **Data Quality Management**

   o   Ensuring data accuracy and reliability.

4. **Data Modeling**

   o   Creating efficient data models.

Module 2: Advanced Data Management Tools

5. **Advanced Data Architecture Techniques**

   o   Designing and managing complex data structures.

6. **Data Warehousing**

   o   Storing and retrieving large data sets efficiently.

7. **Big Data Technologies**

   o   Implementing Hadoop and Spark for large-scale data management.

8. **Data Integration**

   o Combining data from various sources.

Module 3: Practical Applications

9. **Data Cleaning and Preprocessing**

   o Techniques for ensuring data quality and reliability.

10. **Exploratory Data Analysis (EDA)**

    o Analyzing data distributions, identifying patterns.

11. **Advanced Data Governance Techniques**

    o Implementing and managing data governance frameworks.

12. **Business Intelligence Applications**

    o Using data to drive decision making.

Module 4: Capstone Project

13. **Integration of Learned Skills**

    o Apply tools and techniques to real-world data management problems.

14. **Advanced Data Quality Management**

    o Ensuring the highest levels of data accuracy and reliability.

15. **Cloud Data Management**

    o Utilizing cloud platforms for scalable data solutions.

16. **Data Management for AI and ML**

    o Supporting AI and ML applications with robust data management.

Elective Modules

17. **Data Ethics and Privacy**

    o Ethical considerations, privacy laws, compliance strategies.

18. **Predictive Analytics with Data Management**

    o Building and validating predictive models.

19. **AI for Data Management**

    o Implementing AI solutions in data management.

20. **Advanced Data Warehousing Techniques**

   o   Optimizing data warehousing solutions.

21. **Data-Driven Decision Making**

   o   Using data to inform and drive business strategies.

22. **Cloud Data Management Solutions**

   o   Deploying data management systems on cloud platforms.

23. **Data Management Project Management**

   o   Leading data management projects, ensuring successful delivery

17. **Big Data Security**

   o   Securing data in big data environments.

18. **Data Management for IoT**

   o   Managing data generated by IoT devices.

Websites:

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