

Emerging Technologies

Data Governance and Stewardship Professional (DGSP)

Curriculum

Program Outline :

Module 1: Fundamentals of Data Governance

- 1. Introduction to Data Governance**
 - Core principles, tools, and industry applications.
- 2. Basics of Data Stewardship**
 - Establishing data policies and standards.
- 3. Data Quality Management**
 - Ensuring data accuracy and reliability.
- 4. Data Modeling**
 - Creating efficient data models.

Module 2: Advanced Data Stewardship Tools

- 5. Advanced Data Architecture Techniques**
 - Designing and managing complex data structures.
- 6. Data Warehousing**
 - Storing and retrieving large data sets efficiently.
- 7. Big Data Technologies**
 - Implementing Hadoop and Spark for large-scale data management.
- 8. Data Integration**

- Combining data from various sources.

Module 3: Practical Applications

9. Data Cleaning and Preprocessing

- Techniques for ensuring data quality and reliability.

10. Exploratory Data Analysis (EDA)

- Analyzing data distributions, identifying patterns.

11. Advanced Data Governance Techniques

- Implementing and managing data governance frameworks.

12. Business Intelligence Applications

- Using data to drive decision making.

Module 4: Capstone Project

13. Integration of Learned Skills

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

14. Advanced Data Quality Management

- Ensuring the highest levels of data accuracy and reliability.

15. Cloud Data Management

- Utilizing cloud platforms for scalable data solutions.

16. Data Management for AI and ML

- Supporting AI and ML applications with robust data management.

Elective Modules

17. Data Ethics and Privacy

- Ethical considerations, privacy laws, compliance strategies.

18. Predictive Analytics with Data Management

- Building and validating predictive models.

19. AI for Data Management

- Implementing AI solutions in data management.

20. Advanced Data Warehousing Techniques

- Optimizing data warehousing solutions.

21. Data-Driven Decision Making

- Using data to inform and drive business strategies.

22. Cloud Data Management Solutions

- Deploying data management systems on cloud platforms.

23. Data Management Project Management

- Leading data management projects, ensuring successful delivery.

24. Big Data Security

- Securing data in big data environments.

25. Data Management for IoT

- Managing data generated by IoT devices.

Websites:

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