



SYMBIOSIS SCHOOL FOR ONLINE AND DIGITAL LEARNING

Symbiosis International (Deemed University)

COURSE DETAILS

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| Name of the Programme | : Master of Science (Data Science) |
| Semester | : I |
| Course Name | : Data Warehousing |
| Course Code | : T3281 |
| No. of Credit | : 3 |

Learning Objectives:

- Gather requirements for data warehousing
- Explain data warehouse architecture
- Design a dimensional model for data warehousing
- Design a physical model for data warehousing
- Comprehend extract, transform and load strategies
- Understanding Techniques to improve query performance
- Identify Online Analytical Processing (OLAP) databases
- Design and develop business intelligence applications
- Expand and support a data warehouse

Pre-requisites:

- Database Systems



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Course Outline:

| Module No. | Topic |
|------------|---|
| 1 | Introduction, What is Data Warehousing? Comparative Study with ER Modeling |
| 2 | Data warehousing project management and requirements gathering |
| 3 | Technical architecture and Design of Datawarehouse |
| 4 | Dimension Modelling and Implementation |
| 5 | Extraction , Transformation, Load Understanding Different Source, Transformations and Targets |
| 6 | Understanding Techniques to Improve Query performance |
| 7 | Materialized Views and Partitioning |
| 8 | OLAP and Business Intelligence |
| 9 | Deployment, support and expansion of the data warehouse system |
| 10 | Project |

Books Recommended

1. <http://www.kimballgroup.com/html/designtips.html>
2. [http://technet.microsoft.com/en-us/library/bb418433\(v=sql.10\).aspx](http://technet.microsoft.com/en-us/library/bb418433(v=sql.10).aspx)
3. [http://msdn.microsoft.com/en-us/library/ee229548\(v=sql.10\).aspx](http://msdn.microsoft.com/en-us/library/ee229548(v=sql.10).aspx)