

**Bachelor of Computer Application  
(Semester – V and Semester - VI)  
Saurashtra University  
Effective from June - 2018**

<b>CS –32 Data Warehousing with SQL Server 2012</b>				
<b>No.</b>	<b>Topic</b>	<b>Detail</b>	<b>Weightage in %</b>	<b>Min. Lect.</b>
1	Introduction to Data Warehousing	<ul style="list-style-type: none"> <li>• What Is a Data Warehouse?</li> <li>• Data Warehousing Today</li> <li>• Future Trends in Data Warehousing.</li> <li>• Data Warehouse Architecture</li> <li>• Data Flow Architecture</li> </ul>	20	12
2	Designing and Implementation of Data Warehousing	<ul style="list-style-type: none"> <li>• Logical Design for data warehouse</li> <li>• Physical Design for data warehouse</li> <li>• Design dimension table, fact table for data warehouse</li> <li>• Design and implement effective physical data structure for data warehouse</li> </ul>	20	12
3	Creating ETL Solutions with SSIS, Implementing Control Flow in SSIS	<ul style="list-style-type: none"> <li>• Introduction to ETL with SSIS</li> <li>• Exploring data sources</li> <li>• Implementing data flow using SSIS</li> <li>• Introduction to Control Flow</li> <li>• Creating Dynamic Packages</li> <li>• Using Containers</li> </ul>	20	12
4	Enforcing Data Quality, Extending SQL Server Integration Services	<ul style="list-style-type: none"> <li>• Introduction to Data Quality</li> <li>• Using Data Quality Service to Cleanse data</li> <li>• Using Data Quality Service to match data</li> <li>• Using Scripts in SSIS</li> <li>• Using Custom components in SSIS</li> </ul>	20	12
5	Deploying and Configuring SSIS Packages, Consuming	<ul style="list-style-type: none"> <li>• Overview of SSIS Development</li> <li>• Deploying SSIS Projects</li> <li>• Planning SSIS Package</li> </ul>	20	12

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	Data in Data Warehouse	Execution <ul style="list-style-type: none"><li>• Introduction to Business Intelligence</li><li>• Introduction to Reporting</li><li>• Introduction to Data Analysis</li></ul>		
			<b>100</b>	<b>60</b>

**Notes: For Lab Practice : Microsoft SQL Server 2012 or Higher version**

**Reference Books:**

- (1) Implementing a Data Warehouse with Microsoft® SQL Server® 2012 Dejan Sarka  
Matija Lah Grega Jerkič
- (2) Building a Data Warehouse: With Examples in SQL Server – Vincent Rainardi-Apress  
(2014)
- (3) Data mining Explained A manager’s guide to customer centric business intelligence by
- (4) Data mining by Pieter Adriaans, Dolf Zantinge
- (5) Data warehousing in the real world A practical guide for business DSS by Sam Anahory,