

C. U. Shah University, Wadhwan City

Faculty of Computer Science

Name of Program: Bachelor of Science in Information Technology

(B.Sc.IT) Semester : IV

W.e.f. June-2015 Teaching & Evaluation Scheme

Sr. No	Subject Code	Subject Name	Teaching Hours/Week					Evaluation Scheme/Semester							
			Th	Tu	Pr	Total	Credits	Theory			Practical		al		
								Sessional Exam		University Exam		Internal		Uni.	Total Marks
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr	
3	4CS04ISQ3	.Net Technology with SQL -Server	4	-	-	4	4	30	1.5	70	3	-	-	-	100

Objectives: This course contains developing SQL Server database, developing data connection, administering SQL Server and keeping your database performing at their perk.

Pre-requisites: No prior knowledge required to develop a system.

Course Outline:

Outline		Lect.				
Ch. No	Chapter Name and Topics					
1	 Introduction Introduction to SQL Server 2012 Data Architecture Installing SQL Server Client Connectivity 	Hours 10				
	SQL Server Management and Development Tools					
2	 Building Database and Working with Data Relational Database Design and Creating the Physical Database Schema Data Type, Expression and Scalar Functions. Merging Data with Joins, Sub-queries and CTEs Aggregating, Windowing, and Ranking Data Projecting Data through Views Modifying Data in SQL Server Using XML Data 	14				
3	 Programming with T-SQL Programming with T-SQL Developing Stored Procedures Building User-Defined Functions 	06				
4	 Enterprise Data Management Backup and Recovery Planning Maintaining the Database Transferring Database Database Snapshots Log Shipping Database Mirroring 	16				

	Replicating Data			
	• Clustering			
5	Securing and Monitoring SQL Server			
	Authentication Type in SQL Server	6		
	Row-Level Security	6		
	Creating Triggers			
		52		

Learning Outcomes:

At the end of this course the students can analyze, design and develop a mini project.

Books Recommended:

- 1. Adam Jorgensen "Microsoft SQL Server 2012 Bible" wiley
- 2. Kognet "SQL Server 2012 Black Book" Dreamtech.
- 3. Robert Vieira "Microsoft SQL Server 2012 programming" paper back