C. U. Shah University, Wadhwan City



Faculty of Computer Science

Name of Program: Bachelor of Computer Application (BCA)

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(Marks)				
								Internal Exam		Universit y Exam		Tota	Ext	Int	Tot al	Total Marks
								Marks	Hrs	Marks	Hrs	ı	EXT			
3	4CS04BSQ3	.Net Technology with SQL - Server	4	-	-	4	4	30	1.5	70	3	70	-	-	-	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:

Ch. No	Course Contents	Lect. Hours
1	 Introduction Introduction to SQL Server 2012 Data Architecture Installing SQL Server Client Connectivity SQL Server Management and Development Tools 	10
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 Replicating Data Clustering 	16
5	Securing and Monitoring SQL Server	6
	Total Lecture	52

Learning Outcomes:

At the end of this course the students can analyse, 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