COURSE PLAN

NAME OF THE DEPARTMENT: **BCA/IT**

NAME OF THE FACULTY: **Prof. PRIANKA KUMARI**

ACADEMIC SESSION: **2023-24**

YEAR: **2024**

PROGRAMME: **CA & IT**

SEMESTER: **IV**

COURSE TYPE: **IT**

COURSE NAME: **VB.NET**

COURSE CODE: **C9**

TOTAL CREDIT: **6**

PROGRAMME OUTCOMES (PO):

PO1: Scientific & Computational Knowledge: - Apply the information on scientific & computational ideas, software engineering and innovation basics.

PO2: Problem Analysis, Design & Implementation: - Identify, formulate and analyze real world problem. Design solution for Software, Hardware & Networking problems and implementation using Software & Network tools.

PO3: Modern tool usage: - Ability to select modern computing tools, skills and techniques necessary for innovative software solutions.

PO4: Project Management: -Comprehend Software Engineering and Technology standards and apply these to prepare own project and system as a part and pioneer in a group.

PO5: Career Development & Entrepreneurship: Classify opportunities, private enterprise dream and use of original thoughts to build worth and means for the betterment of the human being and the world.

PO6: Communication: Communicate effectively on computational & information Technology activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO7: Ethics: Ability to apply and commit professional Ethics, cyber regulations & control on software piracy in a global economic environment.

PO8: Preparing students for future aspects: Building and improving their creativity, social awareness, and general knowledge.

PO9: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological changes.

PROGRAMME SPECIFIC OUTCOMES (PSO):

PSO1: An ability to apply technical comprehension in varied areas of Computer Applications and experience a conducive environment in cultivating skills for thriving career and higher studies.

PSO2: Understand the concept of Programing logic, Web designing logic, Signal processing, Image processing, Mobile Applications, Multimedia Media.

PSO3: Develop competencies in various disciplines of technologies such as Server-side Web applications, computer networking, software engineering, database concepts and programming

COURSE OUTCOMES (COs):

CO1: Learn the Event Driven Programming, NET Framework, NET Architecture, The Just-In-Time Compiler and Introduction NET Framework class library.

CO2: Create and Apply Windows Forms, Text Boxes, Buttons, Labels, Check Boxes, and Radio Buttons, List Boxes, Combo Boxes. Picture Boxes, Scrollbars, Splitters, Timer, Menus, Built-in Dialogs, Image List, Tree Views, List Views, Toolbars, Status Bar and Progress bars.

CO3: Analysis Data, Operators, Conditionals and Loops, Procedures, Error Handling, Classes and Objects.

CO4: Understand Class and Object, Properties, methods and events, Constructors and Destructors Method overloading, Inheritance, Access modifiers: Public, Private, Protected, Friend, Overloading and Overriding, Interfaces, Polymorphism.

CO5: Learn and handling different types of exceptions.

CO6: Create Common Name spaces.

CO7: Apply Database: Connections, Connection to database with server explorer

Multiple Table Connection with Data grid.

COURSE TEACHING AND LEARNING ACTIVITIES
   A. PEDAGOGY
   i. **Whiteboard** √
   ii. **Flipped Class** √
   iii. **PPT** √
   B. COURSE COMPLETION PLAN

UNIT	NO. OF LECTURES		TEST	QUIZ	ASSIGNMENT
	THEORY	PRACTICAL/TUTORIAL			
1	2	3	√	√	√
2	4	6	√	√	√
3	4	6	√	√	√
4	8	12	√	√	√
5	3	4	√	√	√

6	5	9	√	√	√	
7	3	3	√	√	√	
8	3	5	√	√	√	
9	5	9	√	√	√	
10	3	7	√	√	√	
11	6	10	√	√	√	

A. COURSE DELIVERY PLAN:

UNIT	TOPIC/SUBTOPIC	LECTURE REQUIRED (Theory & Practical)	CO ADDRESSED	ASSIGNMENT/ TEST/ QUIZ
1	Event Driven Programming, NET as better Programming Platform, NET Framework, NET Architecture, The Just-In-Time Compiler, NET Framework class library introduction.	10+10	CO1	√
2	Windows Forms, Text Boxes, Buttons, Labels, Check Boxes, and Radio Buttons, List Boxes, Combo Boxes. Picture Boxes, Scrollbars, Splitters, Timer, Menus, Built-in Dialogs, Image List, Tree Views, List Views, Toolbars, Status Bar and Progress bars.	8+10	CO2	√
3	Data, Operators, Conditionals and Loops, Procedures, Error Handling, Classes and Objects.	10+10	CO3	√
4	Class and Object, Properties, methods and events, Constructors and Destructors Method overloading, Inheritance, Access modifiers: Public, Private, Protected, Friend, Overloading and Overriding, Interfaces, Polymorphism.	10+10	CO4	√
5	Introduction. Handling different types of exceptions.	6+5	CO5	√
6	Common Name spaces.	6+5	CO6	√
7	Database: Connections, Connection to database with server explorer Multiple Table Connection with Data grid.	10+10	CO7	√

B. COURSE OUTCOME ASSESSMENT PLAN

a. DIRECT ASSESSMENT

(Please tick the appropriate column)

COURSE OUTCOME	ASSESSMENT				REMARKS
	QUIZ	TEST	MID SEMESTER	END SEMESTER	
CO1		√	√		
CO2		√	√		
CO3		√	√		
CO4		√	√		
CO5		√	√		
CO6		√	√		
CO7		√	√		
CO8		√	√		
CO9		√	√		
CO10		√	√		

C. SUGGESTED READINGS
a. TEXT BOOKS
- Visual Basic .Net by Shirish Chavan
- Visual Studio 2019 using VB.Net and OleDb By Richard Edwards
- Visual Basic .NET Programming Language By Paul Vick
- Programming Microsoft Visual Basic.NET – Francesco Balena
- The Complete Reference -Visual Basic .NET – Jefrey R. Shapiro

b. REFERENCE BOOKS
- The Visual Basic.NET COACH Visual Basic .NET 2003 in 21 Days. – Steven Holzner, SAMS Publications. Mastering Crystal Report - BPB Publication
- Crystal Report – The Complete Reference: - Tata McGraw Hill
- VB. Net-Halls, Macarthy, L.Hotka
- Programming in Vb.Net – V Christy, University Science Press

c. VIDEO RESOURCE
- **https://www.youtube.com/watch?v=HFWQdGn5DaU**
- **https://www.youtube.com/watch?v=4iMS3Y0yei8**
- **https://www.youtube.com/watch?v=AJpTbPasJqI**

d. WEB RESOURCES
- **https://www.tutorialspoint.com/vb.net/index.htm**
- **https://www.javatpoint.com/vb-net**
- **https://www.guru99.com/vb-net-tutorial.html**
- **https://www.homeandlearn.co.uk/NET/vbNet.html**

e. **E-RESOURCES**

- **https://classroom.google.com/c/Mzc2MzQwMDg2ODEy?cjc=o2ikulj**