Course Code: 505
Course Title: .Net Technology

	Course Title:	.1100	Comic	nogy				
Course Code	505							
Course Title	.Net Technology (Major-13)							
Credits	4							
Course Category	Major Course							
Level of Course	400-499 (Advance Level)							
Teaching Hours	90 Hrs. (30 Hours Theory + 60 Hours Applied/Practical work)							
Minimum weeks per	15 (Including class work, examination, preparation etc.)							
Semester								
Review / Revision	-							
Implementation Year:								
Purpose of Course	The purpose of this course is to introduce students to ASP.NET, a robust server-side web development framework by Microsoft, enabling them to build dynamic, interactive, and data-driven web applications. It aims to provide foundational knowledge of web forms, server controls, state management, database access using ADO.NET, and basic web services, preparing students for real-world enterprise-level web development.							
Course Objective	 To introduce the fundamentals of ASP.NET and the .NET framework for building dynamic web applications. To develop skills in using web controls, event-driven programming, and server-side scripting to design interactive web pages. To provide knowledge of ADO.NET for database connectivity and operations such as data retrieval, insertion, and updates. To enable students to manage user sessions, cookies, query strings, and application states effectively. To familiarize students with configuration files and basic web service 							
Pre-requisite	development for client-server communication. Pecia understanding of HTML CSS and programming fundamentals using C# or a similar							
Pre-requisite	Basic understanding of HTML, CSS, and programming fundamentals using C# or a similar language, along with familiarity with web concepts like HTTP and client-server architecture.							
Course Outcomes	CO1: Remembering: <i>Describe</i> the architecture of ASP.NET and its role within the .NET framework. CO2: Understanding: Explain the use of server controls, event handling, and page life cycle in creating interactive web forms. CO3: Applying: Apply ADO.NET components to establish database connectivity and perform CRUD operations. CO4: Creating: Develop web applications using state management techniques like sessions, cookies, and query strings. CO5: Build simple web services and configure ASP.NET applications using Web.config							
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Mapping between	CO1 PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8
Course	CO2							
Outcomes(CO) with	CO3							
Program Specific	CO4							
Outcomes(PSO)	CO5							
Course Content	Unit-1. Introduction to ASP.NET 1.1 Concepts of ASP.NET 1.2 .Net framework 1.3 Compile Code 1.3.1 Code Behind and Inline Coding 1.4 The Common Language Runtime 1.5 Event Driven Programming 1.6 Server Controls (TextBox, Button, CheckBox, Image Map, Label, LinkButton, RadioButton) 1.7 Post Back 1.8 Data Binding 1.8.1 Grid View 1.8.2 List Box							

	1.8.3 Data binding Events			
	1.8.4 Repeater			
	1.8.5 Form View			
	1.9 Validation Controls , Login Control			
	1.10 Master Pages, CSS & Themes.			
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	Unit 2: Database Access And Client-Server Communications			
	2.1 Introduction about ADO.NET			
	2.2 Introduction about Provider, Adapter, Reader, Command Builder			
	2.3 Database Access using ADO.NET			
	2.4 Communications with Web Browser			
	2.5 Response Object			
	2.6 Cookies 2.7 Query String			
	2.8 Session and State Management			
	Unit 3: Advance ASP.NET			
	3.1 Web.config			
	3.2 Sitemappath Server Control			
	3.3 Web Services			
	3.3.1 Basics of Web Services			
	3.3.2 Interacting with web services			
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	Unit-4: Principles of Mathematics, Geometry and Triangles in Ancient Indian			
	Knowledge:			
	4.1 Principles of Mathematics by Aryabhatt.			
	4.1.1 Principles of Mathematics: Sutra (Verse 1.1)			
	4.1.2 Value of Pi: Sutra (Verse 3.1)			
	4.1.3 Sine Function: Sutra (Verse 3.2)			
	4.1.4 Trigonometric Functions: Sutra (Verse 3.11)			
	4.2 Ancient knowledge From the Shulba Sutras (a part of Vedic texts):			
	4.2.1 Construction of a square			
	4.2.2 The original version of current Pythagorean theorem (Sulbha Sutra 1.2)			
	4.2.3 Area of Circle			
	4.2.4 Area of Triangle			
	4.3 Ancient knowledge by Brahmgupta: 4.3.1 Area of Cyclic Quadrilateral. (Sutra(vere-10))			
	[Implementation of all sutras of Unit-4 in computer Lab. Using C / Python / Any Prog.			
	[Implementation of all suttas of Onit-4 in computer Lab. Osing C / Fython / Any Prog. [Language]			
	[Practical exam will be based on Unit-1 to Unit-3]			
Defeners Deeles	ASP.NET – A Beginner's Guide by Dave Mercer – TMH			
Reference Books	2. ASP.NET Bible – Mridula Parihar et. Al. – Wiley India			
	3. Programming ASP.NET 4 – Dino Esposito			
	4. Professional ADO.NET – Bipin Joshi, Donny Mack, Doug Seven, Fabio Claudio			
	Ferracchiati, Jan D Narkiewiez - Wrox			
	5. ASP.NET for Developers – Amundsen			
	6. The Complete Reference ASP.NET -Matthew MacDonald –TMH			
	7. ASP.NET – Black Book – dreamTech			
	8. Beginning ASP.NET 3.5 in C# and VB –Wrox-Imar Spaanjaars			
	9. The Essential of Vedic Mathematics, Rajesh Kumar Thakur, Rupa Publications, New			
	Delhi 2019.			
	10. Vedic Mathematics: Sixteen Simple Mathematical formulae from the Vedas,			
	Jagadguru Swami Sri Bharati Krishna Trithaji, Motilal Banarasidas, New Delhi 2015.			
Teaching Methodology				
	development, Application Development			
Evaluation Method	50% Internal assessment. :			
	- Attendance, Class and home Assignment,			
	- Practical/Applied work, Practical journal, Unit test and viva-voce			
	50% External assessment :			
	- Theory/Written examination			
	- Practical examination, viva-voce			