ST. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR

B.Com II year (Computer Application) Elective

		Pa	rt A: Introduction	on		
Program: Diploma			Class: UG	Year: II year	session:2022-2023	
Sut	ject: Computer Applica	tion			<u> </u>	
1.	Course Code	S2-COAP2T				
2.	Course Title	Introduction to A	Introduction to ASP.NET& C#			
3.	Course Type	Core course				
4.	Pre-requisite	open to all				
5.	Course Learning Outcomes (CLO)	On the completion of this course student will be able- CO1: To learn fundamentals of, net framework CO2: To enrich knowledge about Windows Forms, Controls and ASP.N based applications. CO3: To gain proficiency in C# by building stand-alone applications in the .N framework using C#. CO4: To build data-driven applications using the .NET Framework, C# ADO.NET CO5: To acquire skills to create web-based applications and Reports using net technologies			applications in the .NET	
	Credit Values	Theory	Theory			
•	Total Marks	Max.Marks:30+7	70 , "	Min.PassingMark	s:33	
ota	Il No. of Lectures =60(3	Introduc	ontents of the (ction to ASP.NE			
nit	Topics				No. of Lectures	
Compiler, C# - The C#.NET Developm		Framework: NET Architecture, CLR, the Just-in-Time basics and Console Applications in C#: Introduction to at Environment, Data type, Variables constants, making, Loops, Class, Object, Arrays.				
Overview of OOPs: Encapsulation, inheritance, polymorphism, abstraction using Class Library, Creating User- Defined Classes. Windows Forms and Controls: The Windows Forms Model, Creating Windows Forms Windows Forms Properties and Events, Windows Form Controls, Menus - Dialogs boxes.			dows Forms and s Forms Windows	12		

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Ш	Introduction to ASP.NET: Overview of ASP.NET framework, Application. ASP.NET Life Cycle, page life cycle phases, Initialization, Instantiation of the controls on the page, Restoration and maintenance of the state	12		
	Understanding ASP.NET Controls, Applications Web servers, installation of			
	IIS. Web forms, Web form controls, server controls, client controls, web forms & HTML.	=		
IV	Programming in ASP.NET, Adding controls to a web form Buttons, Text Box. Labels, Checkbox. Radio Buttons, List Box etc. States of ASP.NET View Stale, Control State, Session State, Application State. Creating a multiform web project, running a web Application, Event Handling- Application and Session Events, Page and Control Events. Validation controls: Required Field validator, Range Validator, Compare Validator, Regular Expression Validator,		n	
V	Custom Validator, Validation Summary Database connectivity in ASP.NET: Architecture of ADO.NET, Create	12	- 	
	Connection using ADO.NET Object Model, Connection Class, Command	į.		
	Class, Data Adapter Class, and Dataset Class. Display data on data bound Controls and Data Grid. Database Accessing on web applications: Data Binding concept with web, creating data grid, Binding standard web server controls. Display data on web form using Data bound controls.			
	Class, Data Adapter Class, and Dataset Class. Display data on data bound Controls and Data Grid. Database Accessing on web applications: Data Binding concept with web, creating data grid, Binding standard web server controls. Display data on web form using Data bound controls. Part C: Learning Resources		*	
	Class, Data Adapter Class, and Dataset Class. Display data on data bound Controls and Data Grid. Database Accessing on web applications: Data Binding concept with web, creating data grid, Binding standard web server controls. Display data on web form using Data bound controls.			







B.Com || year Practical List

- 1. Develop a console application in C# to find the addition of two numbers
- 2. Develop a console application in C# to find the simple interest
- 3. Develop a console application in C# to find the factorial of any n entered number
- 4. Develop a console application in C# to display a Fibonacci series
- 5. Develop a console application in C# to check whether a number is even or odd.
- 6. Develop a console application in C# to implement array.
- 7. Develop a console application in C# to find the product and division of entered numbers.
- 8. Write a program to declare a class "staff" having data of the members such as name and post. Accept this data and display the results.
- 9. Define a class, having "salary" of members displaying variables such as BASIC, DA, HRA .Develop a window application to find the total salary of the employee
- 10. Develop a window application using textbox, checkbox, radio buttons, list box, labels and validation.
- 11. Develop a ASP.NET dynamic website for student registration details.

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ST. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR

BA II year (Computer Application) Minor/Elective

			Part A: Introductio	n			
Pro	gram: Diploma		Class: UG	Year: II year	session:2022-2023		
Sub	ject: Computer Appli	cation					
1.	Course Code S2-COAP2T						
2.	Course Title	Introduction to	Introduction to ASP.NET& C#				
3.	Course Type	Core course					
4.	Pre-requisite	open to all	open to all				
5.	Course Learning Outcomes (CLO)	On the complete	tion of this course s	tudent will be able-	**		
			CO1: To learn fundamentals of, net framework				
		CO2: To enric	CO2: To enrich knowledge about Windows Forms, Controls and ASP.NET based applications.				
		CO3: To gain p framework usi	CO3: To gain proficiency in C# by building stand-alone applications inthe .NET framework using C#_				
		CO4: To build ADO.NET	CO4: To build data-driven applications using the .NET Framework, C#, and ADO.NET				
		CO5: To acqui	CO5: To acquire skills to create web-based applications and Reports				
		using.net techno	using.net technologies				
6.	Credit Values	Theory					
7.	Total Marks	Max.Marks:30	+70	Min.PassingMark	s:33		
		Part B	Contents of the C	Course			
		Introd	luction to ASP.NET	Γ& C#	a a a a a a a a a a a a a a a a a a a		
Tota	al No. of Lectures =60	(3 hours/ lecture per	week)		= =		
Unit	Topics		4.	51.5 - 51.00 5 - 5 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	No. of Lectures		
I	Introduction to .NET Framework: NET Architecture, CLR, the Just-in-Time Compiler, C# - The Basics and Console Applications in C#: Introduction to C#.NET Development Environment, Data type, Variables constants, operators, Decision making, Loops, Class, Object, Arrays.				12		
П	Overview of OOPs: Encapsulation, inheritance, polymorphism, abstraction using Class Library, Creating User- Defined Classes. Windows Forms and Controls: The Windows Forms Model, Creating Windows Forms Windows Forms Properties and Events, Windows Form Controls, Menus - Dialogs boxes.				12		
					1		

III	Introduction to ASP.NET: Overview of ASP.NET framework, Application. ASP.NET Life Cycle, page life cycle phases, Initialization, Instantiation of the controls on the page, Restoration and maintenance of the state Understanding ASP.NET Controls, Applications Web servers, installation of IIS. Web forms, Web form controls, server controls, client controls, web forms & HTML.	
IV	Programming in ASP.NET, Adding controls to a web form Buttons, Text Box. Labels, Checkbox. Radio Buttons, List Box etc. States of ASP.NET View Stale, Control State, Session State, Application State. Creating a multiform web project, running a web Application, Event Handling- Application and Session Events, Page and Control Events. Validation controls: Required Field validator, Range Validator, Compare Validator, Regular Expression Validator, Custom Validator, Validation Summary	
V	Database connectivity in ASP.NET: Architecture of ADO.NET, Create Connection using ADO.NET Object Model, Connection Class, Command Class, Data Adapter Class, and Dataset Class. Display data on data bound Controls and Data Grid. Database Accessing on web applications: Data Binding concept with web, creating data grid, Binding standard web server controls. Display data on web form using Data bound controls.	12
	Part C: Learning Resources	1
	Suggested Digital Platforms Weblinks 1. https://docs.mierosoft.com/en-us/dotnet/framework/pet-started/system-requirements 2. https://mvw.e-sharpcorner.com/UploadFile/18585c/overview-of-oops/ 3. https://mvw.dotnettrieks.com/leaén/designpatterns/adapter-design-pattern-dotnet 4. http://www.mphindigranthacademv.org*/ Suggested Readings: 1. ASP .NET Unleashed C# programming — Wrox Publication. 2. C# Programming Black Book by Matt Talles.	
	VB.NET Programming Black Book by stevenholzer —dreamtech publications	

publications



Mastering VB.NET by Evangelosperroutsos- BPB publications
 Introduction to .NET framework-Worx publication
 Books published by M.P. Hindi Granth Academy, Bhopal



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