



ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

B.Com IV Semester

Paper:- Elective

Subject:-Introduction to ASP.NET & C#

Course Outcomes

CO. No.	Course Outcomes	Cognitive Level
CO 1	To learn fundamentals of. net framework	An
CO 2	To enrich knowledge about Windows Forms, Controls and ASP.NET based applications.	An, Un
CO 3	To gain proficiency in C# by building stand-alone applications in the NET framework using C#.	Un, App
CO 4	To build data-driven applications using the .NET Framework, C#, and ADO.NET	Un, App
CO 5	To acquire skills to create web-based applications and Reports using.net technologies	Ap, Ev.

Credit and Marking Scheme

	Credits	Marks		Total Marks
		Internal	External	
Theory	3	40	60	100
Practical	1	40	60	100
Total	4			200

Evaluation Scheme

	Marks	
	Internal	External
Theory	3 Internal Exams of 20 Marks (During the Semester)	1 External Exam (At the End of Semester)
Practical	3 Internal Exams (During the Semester)	1 External exam (At the end of Semester)





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Content of the Course

Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 45

Maximum Marks: 60

Units	Topics	No. of Lectures
I	Introduction to .NET Framework: Programming Platform .NET Framework, .NET Architecture, CLR, the Just-in-Time Compiler, C# - The Basics and Console Applications in C#: Introduction to C#., Visual development & event driven Programming Methods and events. Data type, type conversion. Variables constants, operators, Decision making, Loops, Arrays.	11
II	Overview of OOPs: Class, Object, Encapsulation, inheritance, polymorphism, abstraction, Understanding Constructors and instance Variables Handling and Using Interfaces. Preprocessor directives, Exception handling, Understanding Delegates in c#. Windows Forms and Controls: The Windows Forms Model, Creating Windows Forms, Windows Forms Properties and Events, Windows Form Controls, Menus - Dialogs - ToolTips.	11
III	Introduction to ASP.NET:- ASP.NET Life Cycle, page life cycle phases, Understanding ASP.NET Controls, Web forms, Web form controls ,server controls, client controls, HTML controls ,Navigation controls.	12
IV	Session Management :- Event Handling- Application and Session Events, Page and Control Events. Validation controls: RequiredFieldvalidator, RangeValidator, CompareValidator, RegularExpressionValidator, CustomValidator, ValidationSummary Database connectivity in ASP.NET: Architecture of ADO.NET, Connection Class, Command Class, Data Adapter Class, and Dataset Class, Display data on web form using Data bound controls.	11





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References

Text Books:

1. ASP .NET Unleashed C# programming — Wrox Publication.
2. C# Programming Black Book by Matt Talles.
3. VB.NET Programming Black Book by st.evenholzner —dreamteef publications
4. Mastering VB.NET by Evangelospetroustos- BPB publications
5. Introduction to .NET framework-Worx publication
6. Books published by M.P. Hindi Granth Academy, Bhopal

Web Links:

1. <https://www.c-sharpcorner.com/UploadFile/18585c/overview-of->
3. <https://www.dotnettricks.com/1eaén/designpatterns/adapter- design-pattern-dotnet>
4. <http://www.mphindieranthacademy.org/>

List of Practical

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 number.
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 result.
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 text box,check box, radio button, list box, labels and validation.
11. Develop a ASP.NET dynamic website for student registration detail.

