

ENTERPRISE APPLICATIONS USING C#

Semester	Subject Code	Category	Lecture Hrs		Theory Hrs		Practical		Credits
			Per week	Per sem	Per week	Per sem	Per week	Per sem	
III		CorePaper-7	5	75	5	75	0	0	4

COURSE OBJECTIVE

- The course provides Understand the importance and basic concepts of enterprise Applications using C#.
- To Specify , analyze and design the requirements for a particular system.

COURSE OUTCOME

Successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	Analyse, design the components in C#	K2,K4
CO2	Identify, analyse database components in C#	K2,K3 & K4
CO3	Design the process into various scenarios and applications	K2 & K3
CO4	Apply the concepts of architectural design for deploying the code for software.	K3 & K4
CO5	To design various tools for deployment	K2,K3 & K4

Knowledge Level – K1-Remember, K2- Understand, K3-Apply, K4-Analyze

MAPPING WITH PROGRAMME OUTCOME

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	S	S	M	S	M
CO2	S	S	M	S	S	M
CO3	S	S	S	M	S	S
CO4	M	S	S	S	M	S

CO5	M	S	S	M	M	S
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S- Strong;

M- Medium;

L- Low

SYLLABUS

UNIT – I Introduction

18 hrs

Introduction – Creating a Simple Component – Properties and State – Database Components – Consuming the Database Component –Enhancing the Component with Error Handling – Aggregate Information–Data Objects.

UNIT- II User Controls

19 hrs

User Controls–Creating a Simple User Control–Visual Studio .NET Custom Control Support – Independent User Controls –Integrated User Controls – User Control Events – Limitations – Deriving Custom Controls.

UNIT - III Caching

19 hrs

Designing for Scalability–Profiling –Caching–Output Caching–Client Side–Query Structuring– Events–CustomCachingControl–CachingwithHTTPCachePolicyClass– Fragment Caching – Data Caching –A Simple Cache Test–Caching to Provide Multiple Views.

UNIT – IV CONFIG SETTING

18 hrs

Determining Security Requirements –Restricted File Types – Security Concepts –ASP.NET Security Model–Security Strategies – Certificates – SSL –Forms Authentication – Web. Config Settings– Login Page – User Lists – Protecting User Passwords with Encryption – Custom Roles – Windows Authentication–IIS Settings –Web. Config Setting–A windows Authentication Test.

UNIT-V DATA ACCESS

18 hrs

EnterpriseLibrary–DevelopingApplicationswithEnterpriseLibrary–Design Blocks– Caching– Cryptography–Data Access – Exception Handling – Logging – Policy Injection – Security – Unity – Validation – Deployment

Tools –Development of Deployment Tools – Choosing a Deployment Strategy–Click once Update Strategy.

Distribution of Marks:Theory 80% and Applications:20%

TEXT BOOKS

S. NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1	Matthew Mac Donald	The Complete Reference–ASP	Tata McGraw Hill,	2002

REFERENCE BOOKS

S. NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1	Joseph Albahari,B enAlbahari	C#7.0 pocket Reference	Oreilly	2017
2	Enrico Buonano	Functional programming in C#	Manning	2017
3	Jon Skeet	C# in depth	Manning	2019
4	Joseph Albahari,Ben Albahari	C#in a Nutshell	Oreilly	2017
5	Paul J.Deitel and Harvey Deitel	C# for programmers	Deitel and Development series	2016
6	Vystavel	C# programming for absolute	Apress	2017

		beginners		
7	Gaurav Arora	Learn C#in 7 days	pocket	2017

WEB RESOURCES

1. <https://www.enggedu.com>
2. <https://www.nptel.in>

TEACHING METHODOLOGY

- Power point presentation
- seminar by students
- Assignment to students
- Lecture through video
- Discussion and interaction in class room
- Google Meet

SYLLABUS DESIGNER

- 1.Mrs. G.SANGEETHA LAKSHMI, Head & Assistant Prof, Dept of Computer Applications.
- 2.Ms. D.SARANYA, Assistant Prof, Dept of Computer Applications.
- 3.Mrs.N.AMBIGA, Assistant Prof, Dept of Computer Applications.