

COURSE TITLE: ADVANCED WEB TECHNOLOGY LAB**COURSE OBJECTIVES:**

- The students will Study the architecture of Dot Net framework
- Understand the basic principles of website development using IDE
- Learn advanced windows and web development techniques using dot NET

LEARNING OUTCOMES:

- The students will be able to create user interface-based applications
- Design and develop secure web applications using asp.net according to industry standards

Code	Course	Teaching Period / Week		Credit			Duration of Theory Exam (in Hrs.)
		L	Pr./Tu	Int.	Ext.	Total	
MCSL107	Advanced Web Technology Lab	-	2	1	1	2	1

Module No.	Objective	Content	Evaluation
1	To introduce students to IDE of Asp.net web application	Asp.Net Web Application ASP.net server controls: Button, TextBox, Labels, CheckBoxex, Radio Buttons, List Controls. Web config and global.aspx files, data types, variables, statements, organizing code	Lab manual for 05 marks
2	To elaborate the use of validation controls in asp.net	Validation Control Validation techniques, state, management using view state, using session state, using application state, using cookies and URL encoding, Master page, content pages, nesting master pages, accessing master page controls from a control page, Site navigation Controls	Online test of 10 marks
3	To demonstrate the use of data base connectivity	Database Connectivity Introduction, using SQL data sources, GridView Control, DetailView and FormView Controls, ListView and DataPager Controls in ASP.NET	Practical exam of 10 marks
4	To implement LINQ with asp.net	LINQ Operators, implementation, LINQ to objects, XML and ADO.net, AJAX: Introduction and working, asp.net Ajax server control, JQuery: Introduction, UI Library, working	

EVALUATION:

Evaluation	Details	Marks
(* please give details of assessment in terms of Unit test/ Project/ quiz /or other assignments and marks allotted for it)		
Internal	<ul style="list-style-type: none"> • Lab Manuals • Online Test • Practical Test 	25 Marks
External	Final Examination (Practical)	25 Marks
Total marks		50 Marks

TEXT BOOKS:

- 1) Stephen Walther, (2011), ASP.NET 3.5 Unleashed, SAMS Publishing, ISBN0-672-33011-3.
- 2) Stephen Walther, (2010), ASP.NET MVC Framework, Unleashed

REFERENCE BOOKS:

- 1) Beginning C# - Wrox Publication (2012)
- 2) Chirag Patel, (2010), Advance .NET Technology second edition, DreamTech Press
- 3) Jonathan Chaffer and Karl Swedberg, Learning jQuery Third Edition - SPD Publication (2010)
- 4) Professional C# (2012) and .NET 4.5- Wrox Publication
- 5) Raj Kamal, Internet and Web Technologies, Tata McGraw Hill (2015)
- 6) .NET programming Black Book (2015)
- 7) Murach's ASP. Net 4. 0 Web Programming with C# 2010
- 8) Andrew Trolsen, *Pro C# 5.0 and the .NET 4.5 Framework*, APress (2011)
- 9) Vijay Mukhi , *C# with Visual Studio* –BPB (2010)
- 10) Heard First C# Second Edition, O'Reilly (2015)
- 11) Murach's ADO. Net 4 Database Programming with C# 2010 4th Edition
- 12) Web Technologies Black book, DreamTech Press (2016)
- 13) Ralph Moseley & M. T. Savaliya, (2011), *Developing Web Application- Second Edition* - Wiley

