

CRITERION I - CURRICULAR ASPECTS

1.3 Curriculum Enrichment

1.3.2 Certificate Courses/Value-added Courses

Value added Courses

Department of Computer Science 2022-2023

Syllabus

- 1. Web Designing
 - 2. PC Hardware and Troubleshooting
 - 3. .Net Programming
 - 4. Digital Image Processing using MAT Lab
 - 5. DTP (Page Maker & Coreldraw)

VALUE ADDED COURSE I – WEB DESIGNING

• 30	Course Code: 22VACCS01
Theory : 30	Credits : 2
Practical :- Exam Hour: 2	Mark : 100
Exam Hour	

OBEJECTIVE

To learn HTML tags, CSS and JavaScript Language programming concepts and techniques.

UNIT – I

HTML: Elements, attributes, heading, paragraph, styles, comments, links, images, tables.

UNIT – II

CSS: Types of CSS, colors, background, margins, padding, height, width, text, font, icon, links, list, tables, image gallery, forms.

UNIT – III

JavaScript- script, function, output statement, variables, operators, data types, if else, switch, for loop.

UNIT – IV

Intermediate JavaScript, JS Expressions, Operators, Statements and Declarations.

$\mathbf{UNIT} - \mathbf{V}$

Object-Oriented Programming- JS Objects and Prototypes, 'This', Scope and Closures Objects and Prototypes Refactoring and Debugging.

TEXTBOOK

1. HTML, CSS, and JavaScript All in One: Covering HTML5, CSS3, and ES6, Sams Teach Yourself, Meloni, J. C., Kyrnin, J. (2018), United Kingdom: Pearson Education.

REFERENCE BOOKS

 Web Design with HTML, CSS, JavaScript and JQuery Set, Duckett, J. (2014), United Kingdom: Wiley.

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LUE ADDED COURSE II - PC HARDWARE AND TROUBLESHOOTING

vAL02 : 30	Course Code: 22VACCS02
Theory Practical :-	Credits : 2
Exam Hour: 2	Mark : 100
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Objective :

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To understand basic concept & structure of Computer Hardware and troubleshooting.

UNIT-I

Introduction to computers: Personal computers-Mainframe computers-Super Computers-Hardware- Software.

UNIT-II

Memory: RAM: SDRAM, DDR1, DDR2, DDR3, DDR4 - ROM: (Hard Drives).

UNIT-III

Components : Mother Board: Chipset-Power Supply-Buses-PCI-AGP--BIOS-SMPS.

UNIT-IV

Processor: Arithmetic and Logic Unit-Control Unit .

UNIT-V

PC Troubleshooting: No Power - No Display -Auto Restart- Slow Process - Update Issue -DOS Commands-Handling without Antivirus - Handling With Antivirus.

Text Book:

1. The Complete Reference PC Hardware: Craig Zacker, John Rourke - Tata McGrawHill, 2001.

Reference Books:

- 1. Govindarajulu. B, IBM PC and clones : Hardware, Trouble shooting and Maintenance. Second edition, Tata-McGraw Hill.
- 2. Rosch. Winn L., Hardware bible, Sixth edition, Que/Techmedia publishers.

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VALUE ADDED COURSE III - .NET PROGRAMMING

Theory : 30	Course Code: 22VACCS03
Practical :-	Credits : 2
Exam Hour: 2	Mark : 100

Objective:

To provide the learners understanding of the techniques in .NET using suitable Hardware and Software Tools.

Unit I

.Net introduction - ADO .Net Architecture - ADO .Net Connected and Disconnected models.

Unit II

.Net Coding design guidelines – Application Domains in .Net – Simple and Complex Data Binding in .Net

Unit III

Web Service Client – Web service with Complex Data types – Web service Performance.

Unit IV

Web Service Performance – WSDL AND SOAP – Building an XML Web Service.

Unit V

Data Grid view class -Remoting in .Net - Leasing and Sponsorship.

Text Book

Stephen C. Perry " Core C# and .Net", Pearson Edition, 2006

Refernces

Andrew Troelsen, "C# and the .Net Platform", A Press 2003

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VALUE ADDED COURSE IV - DIGITAL IMAGE PROCESSING USING MAT LAB

:20	Course Code: 22VACCS04
Theory : 20 Practical : 10	Credits : 2
Exam Hour: 2	Mark : 100

Objective:

To provide the learners understanding of the techniques in Digital Image Processing using MAT Lab.

Unit I

Overview of Image Processing- Digital Image Representation- Types of images

Unit II

Fundamentals Steps in Image Processing - Image Enhancement- Image Restoration - Image Compression - Image Analysis - Image Synthesis

Unit III

Classification of Image Processing Operations- Arithmetic Operation- Logical Operation

Unit IV

Image Enhancement and Restoration - Image quality and need for Image Enhancement-Histogram- based Techniques.

Unit V

Image Type Conversion- Extraction of colour bands- Image Addition- Histogram operations-Image Segmentation using Thresholding types

Text Book

Digital Image Processing – S. Sridhar Oxford University Press 2011.

Reference

Fundamental of Digital Image Processing – Anil K. Jain, Prentice Hall Information and System Sciences Series

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VALUE ADDED COURSE V - DTP (PAGEMAKER AND CORELDRAW)

	Course Code: 22VACCS05
Theory Practical : 30	Credits : 2
Exam Hour: 2	Mark : 100

Objective :

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To provide the learners understanding of the techniques in Desktop Publishing using suitable Hardware and Software Tools.

Unit I

Getting Started with Adobe Page Maker 7.0 - Creating a Publication - Working with Text.

Unit II

Modifying Text - Working with Multiple Pages - Working with Graphics - Formatting Text .

Unit III

Working with Long Publications - Publishing Electronically - Creating a PDF document in PageMaker.

Unit IV

CorelDraw Basics- CorelDraw Interface - Tool Box - Moving from Adobe Illustrator to CorelDraw.

Unit V

Drawing and Selecting - Use of various tools and all fonts used in designing of monograms, logos, posters.

Text Book

- 1. Adobe PageMaker 7.0, Kevin Proot, Cengage Learning.
- 2. DTP Course Kit, Vikas Gupta, Dreamtech Press, 2009.

Reference Book

- 1. Adobe Pagemaker 7.0 (Tamil), Graphics B. Kannan
- 2. Dynamic Memory Advanced DTP Course, Davinder singh

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