| Course Code | PIT21E101J | Course Name | Web Technology | | Course Category | D | Discipline Elective Courses | L | T | P | C |
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| | | | | | | | | 3 | 0 | 2 | 4 |

| Pre-requisite Courses | Nil | | Co-requisite Courses | Nil | | Progressive Courses | Nil | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Course Offering Department | Computer Science | | Data Book / Codes/Standards | Nil | | | | | | | |

| | | 1 | 2 | 3 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
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| CLR-1 : | To familiarize basics of Internet. | | | | | | | | | | | | | | | | | | | |
| CLR-2 : | To create a simple web page. | | | | | | | | | | | | | | | | | | | |
| CLR-3 : | To manage the Web designing. | | | | | | | | | | | | | | | | | | | |
| CLR-4 : | To understand scripting language like Java script. | | | | | | | | | | | | | | | | | | | |
| CLR-5 : | To understand scripting language like VB script. | | | | | | | | | | | | | | | | | | | |
| CLR-6 : | To learn JQUERY and its features. | Level of Thinking (Bloom) | Expected Proficiency (%) | Expected Attainment (%) | | Engineering Knowledge | Problem Analysis | Design & Development | Analysis, Design, | Modern Tool Usage | Society & Culture | Environment & | Ethics | Individual & Team Work | Communication | Project Mgt. & Finance | Life Long Learning | PSO - 1 | PSO - 2 | PSO — 3 |
| Course Learning Outcomes (CLO): | At the end of this course, learners will be able to: | | | | | | | | | | | | | | | | | | | |
| CLO-1 : | Know basics of web page and web site. | 2 | 85 | 80 | | L | H | H | H | H | - | - | M | M | L | - | H | - | - | - |
| CLO-2 : | Understand how web page is designed and how to modify its contents. | 3 | 85 | 80 | | L | H | H | H | H | - | - | M | M | L | - | H | - | - | - |
| CLO-3 : | Apply scripting language javascript. | 3 | 85 | 80 | | L | H | H | H | H | - | - | M | M | L | - | H | - | - | - |
| CLO-4 : | Apply vbscript for web designing | 3 | 85 | 80 | | L | H | H | H | H | - | - | M | M | L | - | H | - | - | - |
| CLO-5 : | Understand advanced scripting using JQUERY. | 3 | 85 | 80 | | L | H | H | H | H | - | - | M | M | L | - | H | - | - | - |
| CLO-6 : | Design a simple web page using HTML, scripting languages. | 3 | 85 | 80 | | L | H | H | H | H | - | - | M | M | L | - | H | - | - | - |

| Duration (Hour) | | 15 | 15 | 15 | 15 | 15 |
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| S-1 | SLO-1 | Introduction to Internet Concepts, Fundamental of Web | Layouts, Linking Documents | Syntax and Example for Operators, Functions in JS | XML Schema, XSLT | Filtering Selections and Arrays, Example using array in JQuery |
| | SLO-2 | History of Web, Web development overview | Frames, Forms | Client side Java script, Server side java script | DOM,DOM structure mode | Example using Filtering selection and array |
| S-2 | SLO-1 | Domain Name System (DNS) | Projects in HTM | Client side Vs server side java script | XML quires and transformation | jQuery CSS - Introduction |
| | SLO-2 | DHCP | Advantages of DHTML | Applications in Java Script | Example program using XML. | Advantages JQuery CSS |
| S-3 | SLO-1 | POP, HTTP | Introduction to DHTML | Java Script Security | Importance of XML | CSS Method |
| | SLO-2 | HTTPS | CSS and its types | VB Script - Introduction | Sample Applications | Syntax, Examples |
| S 4-5 | SLO-1 | Laboratory1: Hyperlinks, Lists in HTML and Tables | Laboratory 4: Data types and variables, operators , Conditional Statements and Looping | Laboratory7: Handling Mouse Events, Develop Digital Clock & Calculator | Laboratory10: Data Types & Variables Procedures, Conditional, Looping in VB Script | Laboratory13: Obtaining and installing jQuery, |
| | SLO-2 | | | | | |
| S-6 | SLO-1 | FTP - File Transfer Protocol, Other servers | Internal CSS, Inline CSS | Advantages of VBScript, Syntax of VBScript | JQUERY – Introduction, What Does jQuery Do? | Facutry() function, JQuery Effect() methods |
| | SLO-2 | Internet Service Provider – ISP | External CSS<br><br>CSS Class | Operators | Obtaining jQuery, Installing jQuery | Example using effect methods |
| S-7 | SLO-1 | Web Browser | CSS examples, Webpage1 | Control statements | Filtering a Selection | The outer Width and outer Height Methods |
| | SLO-2 | Introduction to HTML / DHTML. | CSS examples Webpage2 | Looping statements | Searching within a Selection with find method. | Sliding Elements |
| S-8 | SLO-1 | Types of Web Servers | Java Script - Introduction | Functions in VBScript | Finding an Element's Siblings | Showing and Hiding Elements |

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| | SLO-2 | HTML Basic Tags | Advantages of Java Script | Examples using functions | Finding an Element's Siblings methods | Examples for Hiding elements |
| S9-10 | SLO-1 | Laboratory2: Forms Controls Frames with tags | Laboratory5: Functions 4. Strings, Date and Time | Laboratory8: Web Page with forms and Validations, Authentication and Verifications | Laboratory11: Functions, Date, Time, Constants, Events, Methods, | Laboratory14: Events , Effects  Examples for sliding |
| | SLO-2 | | | | | |
| S-11 | SLO-1 | Rules of HTML | Java script Object model, | Simple applications using functions. | Searching Ancestors | Fading Elements, Examples for fading |
| | SLO-2 | Text Formatting | Events and its types | XML – Introduction | Searching Ancestors Using the parents and parent Methods Events | Animation,Examples |
| S-12 | SLO-1 | Lists | Handling events | Commercial Benefits of XML | Filtering Selections | Custom Animation |
| | SLO-2 | Adding Graphics to Html Document Tables | Types of operators, Expressions | Advantage with XML, | Arrays | Example for custom animation |
| S-13 | SLO-1 | Tags,Styles | Programming in XML | XML in Action | Basic Iteration | Selectors |
| | SLO-2 | Java Script Object Model Hierarchy | Objects, Operators, Validation | Expressions | SMTP | Concept of IP Address |
| S 14-15 | SLO-1 | Laboratory3: CSS – Format all web pages in the common format using CSS | Laboratory6: Array and Math,Cookies | Laboratory9: Events Handling | Laboratory12: Error Handling | Laboratory15: Callback , HTML, CSS |
| | SLO-2 | | | | | |

| Learning Resources | 1. Margaret Levine Young, "Internet-The Complete Reference", McGraw Hill, 2nd Edition (For Unit I to III)  2. Jon Ducket, (2005), "Web Programming with HTML, CSS and JavaScript", Wiley Publishing. (For Unit IV to V) | 3. **Web Resources** |
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| Learning Assessment | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bloom's Level of Thinking | | Continous Learning Assessment(50% Weightage) | | | | | | | | Final Examination (50% weightage) | |
| | | CLA – 1 (10%) | | CLA – 2 (10%) | | CLA – 3 (20%) | | CLA – 4# (10%) | | | |
| | | Theory | Practice | Theory | Practice | Theory | Practice | Theory | Practice | Theory | Practice |
| Level 1 | Remember | 20% | 20% | 15% | 15% | 15% | 15% | 15% | 15% | 15% | 15% |
| | Understand | | | | | | | | | | |
| Level 2 | Apply | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% |
| | Analyze | | | | | | | | | | |
| Level 3 | Evaluate | 10% | 10% | 15% | 15% | 15% | 15% | 15% | 15% | 15% | 15% |
| | Create | | | | | | | | | | |
| | Total | 100 % | | 100 % | | 100 % | | 100 % | | 100% | |

# CLA – 4 can be from any combination of these: Assignments, Seminars, Short Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc

| Course Designers | | |
|---|---|---|
| **Experts from Industry** | **Experts from Higher Technical Institutions** | **Internal Experts** |
| Mr. S. Karthik, IT Analyst, Tata Consultancy Services | Dr. Neelanarayanan,, Professor, School of Computer Science and Engineering, VIT Chennai | Dr P.J.Arul Leena Rose |
| | | Dr. S.P. Angelin Claret |