

| General Information | | | | | | |
|--|----------|--------------------|-----------|--|-------|----------|
| Course Code | ITEC 342 | Level/Year | 5th / 3rd | Required (R) / Selected Elective (SE) | | R |
| Credit Hours | Theory | 2 | Lab | 1 | Total | 3 |
| Prerequisites | NIL | Course Coordinator | | Ms. Poonam Bhargav | | |
| Corequisites | NIL | Track Leader | | Dr. Nadim Rana | | |
| Course Description | | | | | | |
| <p>This course is an overview of the modern Web technologies used for the Web development. The purpose of this course is to give students the basic understanding of how things work in the Web world from the technology point of view as well as to give the basic overview of the different technologies. The topics include Introducing WWW, Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) and Security. We will follow the guidance of the World Wide Web Consortium (W3C) to create interoperable and functional websites.</p> | | | | | | |
| Course Objectives : On completion of the course, the student will be able to: | | | | | | |
| <ul style="list-style-type: none"> • Learning about basics of internet and web architectures. • Understanding security challenges in Web Technologies • Analyze a web page and identify its elements and attributes. • Designing and Creating web pages using HTML and Cascading Styles sheets (CSS). • Implement a variety of strategies and tools to create websites. | | | | | | |
| Course Contents | | | | | | |
| List of Topics | | | | | | Weeks |
| CH 1: Introduction | | | | | | 1, 2 |
| CH 2: HTML | | | | | | 3,4,5 |
| CH 3: Forms | | | | | | 6,7 |
| CH 4: Cascading Style Sheets | | | | | | 8,9,10 |
| CH 5: XML | | | | | | 11,12,13 |
| CH6:Web Security | | | | | | 14,15,16 |
| Textbook | | | | | | |
| <ul style="list-style-type: none"> • Michaud, Foundations of Web Design: Introduction to HTML & CSS, 1/e, 2014, Pearson, ISBN-10: 0321918932 ISBN-13: 9780321918932 | | | | | | |

| Reference Materials | | | | | | |
|--|--|--------|---------------|------|------|------------------|
| <ul style="list-style-type: none">Castro & Hyslop, HTML and CSS: Visual Quick Start Guide, 8/e, 2014, Pearson, ISBN-10: 0321928830 ISBN-13: 9780321928832World Wide Web Consortium (W3C) standards and architectures through: http://www.w3.org/standards/webarch/ | | | | | | |
| Course Learning Outcomes | | | | | | |
| CLO | Description | | | | | Mapped PI |
| CLO#01 | Define the basic concepts, history, and development of the World Wide Web, and associated technologies. | | | | | PI 1.1 |
| CLO#02 | Explain Security challenges and issues in web technologies. | | | | | PI 1.2 |
| CLO#03 | Identify the right tools and technologies in websites production like HTML, CSS, and XML. | | | | | PI 1.3 |
| CLO#04 | Design web pages using HTML and CSS | | | | | PI 2.1 |
| CLO#05 | Implement HTML, CSS and JavaScript features for web pages as per need of applications. | | | | | PI 2.3 |
| CLO#06 | Deliver effective oral presentations on technical topics, using appropriate visual aids and produce clear and concise technical documentation. | | | | | PI 3.1 PI 3.2 |
| CLO-PI-SO Mapping | | | | | | |
| | SO-1 | SO-2 | SO-3 | SO-4 | SO-5 | SO-6 |
| CLO#01 | PI 1.1 | - | - | - | - | - |
| CLO#02 | PI 1.2 | - | - | - | - | - |
| CLO#03 | PI 1.3 | - | - | - | - | - |
| CLO#04 | - | PI 2.1 | - | - | - | - |
| CLO#05 | - | PI 2.3 | - | - | - | - |
| CLO#06 | - | - | PI 3.1,PI 3.2 | - | - | - |