Maharashtra State Board of Secondary & Higher Secondary School, Pune

Department of Information Technology

Subject: Information Technology(97)
Standard:Twelve
Faculty: Science

* Syllabus*

XII Information Technology (Theory & Practical)

Theory Index

Sr.No.	Unit/Topic	Weightage
1	Advanced Web Designing	20
2	Introduction to SEO	10
3	Advanced JavaScript	15
4	Emerging Technologies	10
5	Server –Side Scripting (PHP)	15
6	E – Commerce and E-Governance	10

Practical Index

Sr. No.	Practical's Name
1	Advanced Web Designing
2	Advanced JavaScript
3	Server –Side Scripting (PHP)

Syllabus

Sr. No.	Name Of the Topic	Scope Of Syllabus
1	Advanced Web Designing	**1.1 Advanced Web Designing** **1.2 Forms in HTML 5:**Html 5 advanced <input> element. Input restrictions **1.3 <meta tag> :** Attributes of <meta> tag **1.4 Cascading Style Sheets in HTML 5 :** CSS syntax ,Types of CSS ,CSS Id Selector,class selector for specific element, Universal selector Group selector ,Positioning in CSS ,Types of positioning in CSS ,Float property ,Display property 1.5 **Ordered list or numbered list:** Attributes of <OL> tag **1.6 Unordered list or Bulleted list:** Attributes of <UL> tag **1.7 Definition list** **1.8 Inserting audio and Video in HTML5:** Common Audio formats ,<Audio> tag ,Adding audio with multiple sources , <video> **1.9 Image map in HTML 5** <img> ,<map> ,<area> ,attributes of <area> **1.10 Inline frame in HTML 5** Attributes of <iframe> **1.11Website Hosting:** What is web hosting ,What is web Host ,Types of web hosting
2	Introduction to SEO	**2.1 Introduction** **2.2 Types of SEO :** on page and Off page **2.3 Techniques of SEO :**White Hat SEO ,Black Hat SEO **2.4 Optimizing Website:** SEO: Page structure optimization , SEO Keywords SEO Social Bookmarking , SEO –Social Media Optimization **2.5 SEO Audit**
3	Advanced JavaScript	**3.1 Introduction:** Features of Javascript, types of scripting ,difference between server side scripting and client side scripting **3.2 Switch case and Looping Structures :** Switch case statement , looping statement ,Break and Continue statement **3.3 Objects in JavaScript:** DOM (Document Object Model) ,inner HTML Property ,window object **3.4 JavaScript Event:** Input and other object Events **3.5 JavaScript Built-in Objects** String object ,Math object ,Date object ,Number object ,Array object

Sr. No.	Name Of the Topic	Scope Of Syllabus
4	Emerging Technologies	**4.1 IoT (Internet of Things):** Advantages and Disadvantages **4.2 Cloud Computing:** Models of Cloud Computing ,Types of Cloud Computing **4.3 AI (Artificial Intelligence)** Advantages and Disadvantages of AI **4.4 5G :** Application , Features of 5G
5	Server –Side Scripting (PHP)	**5.1 Introduction to PHP** **5.2 Server side Scripting** **5.3 Features of PHP** **5.4 First sample code of PHP:** How to execute PHP program ,PHP Case sensitivity , PHP variables ,variable scopes in PHP , PHP data types ,Comments in PHP, Control structures in PHP **5.5 PHP String Functions** **5.6 PHP Arrays** Create an Array in PHP ,Types of arrays **5.7 PHP User Defined Functions:** PHP Function Arguments , Returning value **5.8 PHP Form Handling:** GET vs POST ,When to use GET ,When to use POST, Form Connectivity with Database, Cookies and Session in PHP
6	E – Commerce and E-Governance	**6.1 Introduction** **6.2 Definition of E- Commerce:** Difference- Traditional Commerce and E-Commerce , Advantages of E-Commerce , Disadvantages of E-Commerce ,Types of E- Commerce **6.3 E- Commerce Trade Cycle** **6.4 Modes of Payment:** credit cards ,mobile payments ,bank transfers ,E-Wallets **6.5 Forms of E- Commerce** Mobile Commerce , Social Commerce **6.6 E- Commerce Technology:** EDI **6.7 E- Governance:** Advantages ,Types of Governance **6.8 Security Measures in E- Commerce:** Encryption , Digital Signature, Digital Certificate