

# Syllabus of Computer Fundamentals

## Class X

### Quarter 1- April to June

S.no.	Units	Contents	No. of Periods
1.	<b>Review of Autodesk 3D Max</b>	1.1 What is 3D? 1.2 Navigation and Display 1.3 Creating Objects & Selecting Objects. 1.4 Parenting & Grouping objects. 1.5 Transforming Objects.	4
2.	<b>Animation in 3D Max</b>	<b>2.1. Animation</b> 2.1.1 Keys and Key framing. 2.1.2 Animation Controllers 2.1.3 Parametric vs. Transform Animation 2.1.4 Animation Playback 2.1.5 Acceleration 2.1.6 Time Configuration 2.1.7 Cycling & Linking <b>2.2 Editing tools:</b> 2.2.1 Select Modifiers 2.2.2 Edit Modifiers 2.2.3 Editable Object Commands 2.2.4 Sub-Object Selection 2.2.5 Modifying & Transforming Sub-Objects 2.2.6 Mesh Editing Levels 2.2.7 Spline Editing Levels	12
<b>Minimum Level of learning</b> Student should be able to open & do small animation in Autodesk 3D Max			

### Quarter 2- July to Sept

3.	<b>Customizing &amp; Embedding Multimedia components in Webpages</b>	<b>3.1 Inserting Multimedia files in Webpages</b> 3.1.1 Compatible Multimedia Files formats for Webpages. 3.1.2 Embedding Audio File. 3.1.3 Embedding Video File. 3.1.4 Embedding Flash File.	16
<b>Minimum Level of learning</b> Student should be able to insert Multimedia files in the webpage.			

### Quarter 3- Oct to Dec

4.	<b>Web Scripting Using Java Script</b>	<b>2.1 REVIEW OF JAVA SCRIPT OF CLASS IX</b> 2.1.1 Variables & Operators 2.1.2 If & Switch 2.1.3 Iteration (Loops) 2.1.4 Window Object 2.1.5 Pop – Up Boxes –Alert, Confirm Etc. <b>2.2 FUNCTIONS –USER DEFINED</b>	20
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		2.2.1 Function Definition 2.2.2 Calling a Function 2.2.3 Function Parameters 2.2.4 Return Statement <b>2.3 String Object</b> 2.3.1 Syntax 2.3.2 String Properties 2.3.3 String Methods 2.3.4 String HTML Wrappers <b>2.4 Math Object</b> 2.4.1 Syntax 2.4.2 Array Properties 2.4.3 Array Methods <b>2.5 Event</b> 2.5.1 What is an Event? 2.5.2 An click Event Type 2.5.3 On Submit Event Type 2.5.4 On Mouseover & On Mouseout 2.5.5 HTML 4 Standard Events	
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**Minimum Level of learning**

Student should be able to deal with programming concept in JavaScript to design Interactive webpages.

**Quarter 4- Jan to Mar**

5.	<b>Operating Web Based Application</b>	<b>4.1 E-GOVERNANCE</b> 4.1.1 What is E-Governance 4.1.2 Major E- Governance Projects in India 4.1.3 Societal Imports of E- Governance <b>4.2. E-BUSSINESS</b> 4.2.1 What is E- Business 4.2.2 Major E- Business Portals 4.2.3 Societal Impacts of E- Business <b>4.3 E- LEARNING</b> 4.3.1 What is E- Learning? 4.3.2 Major E- Learning Sites 4.3.3 Societal Impacts of E- Learning.	6
6.	<b>Project</b>	<b>Developing a Project on coding a website using HTML, JavaScript &amp; CSS.</b>	8

**Minimum Level of learning**

Student should be able to know the importance of E-Governance & should able to design a webpage using Html & JavaScript

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