Learning Path For
YOUNG LEARNERS

WEB DEVELOPMENT AND CYBER SECURITY

During these classes students will explore different websites to understand the elements. design of websites. They will then create their own website using HTML commands and style it using CSS. During the cybersecurity module, the students will explore the safe techniques to be followed while working on the internet.

SESSION	CONCEPT	SKILLS
01	Exploring Websites	**Exploration, Observation** Observe various websites to study website elements and designs.
02	Introduction To HTML	**Structuring** Website content & structure, HTML structure and element , Planning & Building a structure, Heading tags.
03	CSS: Working with text - II	**Scripting** Paragraph tags, Creating horizontal rules & line breaks.
04	Div Tag and Creating ID & Classes	**Classification** HTML division tags and creating HTML ID & CLASS.
05	CSS: Working with text - I	**Classification and Targeting** Introduction to CSS, CSS syntax, Understanding CSS properties.
06	CSS: Working with text - II	**Creativity, Design** Using CSS properties for styling text content.
07	Links & CSS: Links - I	**Exploration, Scripting** Web navigation, Examples of web navigation, Adding HTML links.
08	Links & CSS: Links - II	**Creativity, Design** CSS: Styling Links.

09	Adding & Styling Images - I	**Creativity, Generalization** Adding Images in HTML, Image usability guide.
10	Adding & Styling Images - II	**Classification and Targeting** Creating image with link, Styling link using CSS properties.
11	Formative Assessment	**Assessment of Learning**
12	Working With Lists - I	**Classification and Ordering** Introduction to list, HTML list , Creating ordered & unordered list
13	Working With Lists - II	**Formatting** Styling list using CSS properties.
14	Working With Tables - I	**Nested Layouting** Introduction to tables, HTML tables, Creating HTML table.
15	Working With Tables - II	**Design** Styling tables using CSS properties.
16	Working With Forms - I	**Event Based Programming** Introduction to webforms, HTML forms, Creating HTML forms Basic.
17	Working With Forms - II	**Event Based Programming** Webform Examples, Creating HTML form advance.
18	Working With Forms - III	**Design, Creative Thinking** Styling Form using CSS propeties.

19	Formative Assessment	**Assessment of Learning**
20	Creating a Web Gallery In HTML- I	**Design, Visualization** Introduction to gallery & Web Gallery, Creating Image Gallery.
21	Creating a Web Gallery In HTML- II	**Design, Formatting** Adding Captions to the images and styling web gallery using CSS properties.
22	Adding Multi Media In HTML - I	**Exploration** Introduction to Multimedia and multimedia formats for audio & video, Adding video to web page.
23	Adding Multi Media In HTML - II	**Styling** Adding audio to web page and adding Youtube videos to webpage and styling the content using CSS propeties.
24	Adding Transformation To Web Elements	**Visualization, Creativity** Visualization, Creativity.
25	Adding Transition To Web Elements	**Visualization, Creativity** Introduction to Transition, Using CSS trnasition propeties to control the duration of effect.
26	Adding Animations To Web Pages - I	**Spatial Visualization** Introduction to animation, CSS animations, Learning about keyframes and animation properties.
27	Adding Animations To Web Pages - II	**Spatial Visualization** Adding animation propeties to elements of web page.
28	Adding Animations To Web Pages - III	**Spatial Visualization** Creating animation, adding buttons, text color animation and text reveal effect.

29	Pagination & Footer In Web Pages	**Formatting** Introuction to Pagination , creating and styling pagination, adding footer to web page.
30	**Formative Assessment**	**Assessment of learning**
31	My Online Neighbourhood	**Exploration** Introduction to online Neighbourhood, Steps to be a responsible digital citizen when online, Internet Traffic light that indicates good and bad websites.
32	Online Community And Social Media Life	**Generalization, Collaboration** What is Online community and how are we connected via Social Media. Keeping social life healthy and safe.
33	Private And Personal Information	**Critical thinking, Analyzing** What does private & personal information mean? How to protect self privacy and understand what should be shared online.
34	Password Powerup	**Critical Thinking, Logic** Building powerful passwords & how to handle advanced tech safely.
35	Binary Code	**Computation, Numeracy** Introduction to Binary code and the study of binary representation systems.
36	Exploring Encryption & Decryption - I	**Computation, Numeracy** Pigpen Ciphers - Encoding & Decoding.
37	Exploring Encryption & Decryption - II	**Computation, Numeracy** Caesar Cipher - Encoding & Decoding
38	Phishing For Scams	**Exploration, Analyze** What is clickbait, and how can you avoid it? , How can you protect yourself from phishing?

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39	Internet And Cybersecurity Dilemmas	**Exploration, Analyze** Discover How Networks Work, Find Out What Protocols Are And How to Create One, Find Out What Malware Is.
40	**Formative Assessment**	**Assessment of Learning**

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