***HTML Syllabus***

Module 1: Web Programming Introduction

* Web Development Introduction
* Web Technologies
* Where do HTML and CSS and JavaScript fit in

Module 2: HTML Introduction

* History of HTML
* What are HTML Tags and Attributes
* How to differentiate HTML document versions

Module 3: HTML Tags & Attributes

* Formatting Tags
  + Basic Tags
  + Formatting Tags
  + Color Coding
* Grouping Tags
  + Div
  + Span
* List Tags
  + Unordered
  + Ordered
  + Description List
* Images
  + Image tags
* Tables
  + Table
  + Table Header
  + Table Data
  + Table Row
* Form Tags
  + Input
  + Text Area
  + Button
  + Select
* Header Tags
  + Title
  + Link
  + Style
  + Script

Module 4: Hyperlinks

* Anchor tags & href
* Linking to other websites
* Linking to pages within a website
* Opening a link in a new browser/tab

***CSS Syllabus***

Module 1: Introduction to CSS

* Style Tag
* Types of Styles
* How to link external stylesheet in html document
* HEX Color Codes

Module 2: CSS Selectors

* The class attributes
* ID attributes
* Element Selector
* Select all Element on the page

Module 3: Layouts

* Display
* Flexbox

***JavaScript***

Module 1: Introduction to JavaScript

* What is Programming
* What is JavaScript
* Use of JavaScript
* Create JS file
* Introduction to Developer Tools

Module 2: Variables, Data Types and Operators

* Defining and Using variables
* Let and Const and Var
* Number, String and Object types
* Arithmetic Operator
* Assignment Operator
* Comparison Operator
* Logical Operator
* Type Operator

Module 3: Loops, Decision Making, Strings, Objects

* For Loop and While Loop
* For In and For Of
* If else, if else if else and its nesting constructs
* Strings and Its methods
* String Search

Module 4: Arrays, Functions and Events

* Arrays
* Iteration on Arrays
* Functions and Parameters
* Events – click or change event, mouseover and mouseout events and onload

Module 5: ES6 Syntax – Classes, and Arrow Functions

* Classes and Objects
* Constructors
* Class Methods
* Instantiate Classes

***Java***

Module 1: Introduction to Java

* What is Java
* History of Java
* Features of Java
* Other Programming Languages (JavaScript) vs Java
* JDK, JRE and JVM
* Basic Program (hello world)

Module 2: Variables and Data Types

* What are variables
* Data Types
* Primitive Data Types
* Type Casting
* Comments

Module 3: Operators

* Unary
* Arithmetic
* Relational
* Assignment
* Logical
* Ternary
* Operator Precedence

Module 4: Control Statements

* If-Else
* Loops
  + For
  + While
  + Do While
* Switch
* Nested If-else
* Continue
* break

Module 5: Classes and Objects

* Classes
* Objects
* Object Instantiation
* Scope
* Method

Module 6: Non-primitive Data Types

* Strings
* Arrays
* Classes

Module 7: Object Oriented Paradigm

* Inheritance
* Types of Inheritance
* Polymorphism
* Access Modifiers
  + Public
  + Protected
  + Private
* Encapsulation
* Abstraction

Module 8: Interfaces

* Create interfaces
* Use interfaces
* How to extend interfaces

Module 9: Method Overloading

* What is method overloading
* Implement method overloading
* Use case of method overloading

Module 10: Packages and User Input (if time permits)

* What are packages
* Create your own packages
* Use them in your program
* Import other packages
* Use scanner for inputs