



*J.S. University, Shikohabad*  
Faculty of Information  
Technology

Value Added Course

AY: 2020-21

# HTML, CSS and Data Analytics using Python

## Learning Outcome:

This Course will provide knowledge of Information Technology

**Duration:** 30 Hours. (Theory and Practical)

## Course Outcomes:

- Studying the nature of HTML
- Design and create a website to meet the needs of a client using text; fonts; color; images; tables; hyperlinks; language and terminology
- Use HTML to define the structure of content.
- Use Cascading Style Sheets (CSS) to format Web pages.
- Describe the evolution of style sheets from print media to the Web.
- Use color on Web pages.

## MODULE I

**6 Hrs..**

HTML - General Introduction to Internet and WWW; HTML: Structured language, Document types, Rules of html, Html tags, Head tags, Body tags, Headings, Divisions and Centering, Quotations, Preformatted text, Lists, Horizontal Rules, Block level elements, Text level elements, Character entities, Comments, Fonts, Tables: Table tags, Colors, Color names, Color values, Marquee tag.

## MODULE II

**6 Hrs..**

Introduction to cascading style sheets: Concepts of CSS, creating style sheet, CSS properties, CSS styling(background, text format, controlling fonts), working with the block elements and objects. Working with lists and tables, CSS ID and class. Box model (introduction, border properties, padding properties, margin properties), CSS colour, grouping, Dimensions, display, positioning, floating, align, pseudo class, Navigation bar, image sprites.



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### MODULE-III

6 Hrs..

Introduction to Python - Features of Python - Identifiers - Reserved Keywords - Variables Comments in Python — Input , Output and Import Functions - Operators Data Types and Operations— int, float, complex, Strings, List, Tuple, Set ,Dictionary - Mutable and Immutable Objects Data Type on version - Illustrative programs: selection sort, insertion sort, bubble sort.

### MODULE IV

6 Hrs..

Python Fundamentals for Data Analysis  
Python data structures, Control statements, Functions, Object Oriented programming concepts using classes, objects and methods, Exception handling, Implementation of user-defined Modules and Package, File handling in python.

### MODULE V

6 Hrs..

Introduction to Data

Understanding and Preprocessing Knowledge domains of Data Analysis, Understanding structured and unstructured data ,Data Analysis process, Dataset generation, Importing Dataset: Importing and Exporting Data, Basic Insights from Datasets, Cleaning and Preparing the Data: Identify and Handle Missing Values.

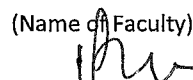
### REFERENCES

1. Steven Holzner, "HTML Black Book", Dremtech press.
2. Web Technologies, Black Book, Dreamtech Press
3. Web Applications : Concepts and Real World Design, Knuckles, Wiley-
4. "Taming PYTHON By Programming", Jeeva Jose Khanna Publications.
5. Python Programming: A Modern Approach, Vamsi Kurama, Pearson
6. Python Programming A Modular Approach with Graphics, Database, Mobile, and Web Applications, Sheetal Taneja, Naveen Kumar, Pearson.

  
(Name of Faculty)

Course Coordinator

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