DSE-4: Web Application Development for Sanskrit

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Web Application Development for Sanskrit	04	3	1	0	Semester II Passed	Basic knowledge of Computer and Sanskrit

Learning Objectives

This course is intended to familiaries the students with the modern technology of web publishing, web page development in Sanskrit and other Indian languages.

Learning outcomes

The course-level learning outcomes that a student of this course is required to demonstrate are indicated below:

- Learn the basic concepts of web page development.
- Learn the basic concepts about HTML, CSS and Java Scripts.
- Learn the basic concepts of Typing tools in Devanagari Unicode.

Detailed Syllabus

Unit I   12Hrs

Brief Introduction to Web Applications for Sanskrit

Front End
Web Server
Back End

Unit II   12Hrs

Front End and Back End development in Sanskrit
Basics of Hyper Text Markup Language (HTML)
Basics of Cascading Style Sheets (CSS)
Basics of Data storage (files)

Basics of Data Bases

Unit III   **09Hrs**

Web Servers

    Basics Java-Scripts (JS)
    Basics of Python

Unit IV   **12Hrs**

Typing Tools for Unicode Devanagari (Sanskrit)

Computer program for typing
Online typing tools
Voice typing tools
Mobile Typing

Essential/recommended readings

1. Chandra Subhash (2021). भाषासंगणन (Language Computing), Upasana Publications, New Delhi, India, ISBN: 978-93-87677-05-0.

2. Chandra Subhash (2017). मशीनी अनुवाद (Machine Translation) यूजीसी सीबीसीएस स्कीम के तहत बीए (संस्कृत) के एईईसी (AEEC)-3 के पाठ्यक्रम पर आधारित. Vidya Nidhi Prakashana, New Delhi, India, ISBN 978-93-85539-52-7.

3. Various e-resources and online tools suggested by teachers

Suggested readings

1. HTML Tutorial - W3Schools: https://www.w3schools.com/html/

2. CSS Tutorial - W3Schools: https://www.w3schools.com/css/default.asp

3. JS Tutorial - W3Schools: https://www.w3schools.com/js/default.asp

4. Python Tutorial- W3Schools: https://www.w3schools.com/python/default.asp

5. SQL Tutorial- W3Schools: https://www.w3schools.com/sql/default.asp

Examination scheme and mode: Subject to directions from the Examination Branch/University of Delhi from time to time