

AEC- Sanskrit Language and Technology

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		
Sanskrit Language and Technology	02	02	00	00	Nil	Nil

Learning Objectives

Information technology is taking place in education and language learning rapidly. Therefore, the objective of the course is to introduce the tools and technology to enhance the skill Sanskrit language through Technology.

Learning outcomes

Through this course, students will be aware of the basic Sanskrit and skilled in the language technology tools for Sanskrit. They will also know about various available tools for Sanskrit.

Syllabus of AEC

Unit 1- Introduction to Sanskrit Language

01 Credit

Introduction to Sanskrit Alphabets, word and sentence
Sanskrit Writing Traditions: Devanagari, Roman (IAST)

Character Encoding for Sanskrit and other languages:

American Standard Code for Information Interchange (ASCII)
American National Standards Institute (ANSI)

Unicode: Unicode Transformation Format (UTF), UTF-8, UTF-16 and UTF-32/UCS-4.

Unit II- Sanskrit Language Unicode Typing and Other Computational Tools

01 Credit

Typing Software: Baraha, Pramukh and other
Online Typing Tools: Google Input Tools
Voice Typing Tools: Google Voice Typing Tools
Mobile Typing Tools: Microsoft SwiftKey, Pramukh

Introduction to various available tools for Sanskrit.

Sanskrit Grammar Tools, and e-dictionary
Sanskrit Text Preservation and Search
Online Indexing Tools for Sanskrit Texts

Suggested Readings

1. Unicode Technical Report #17: Unicode Character Encoding Model". 2008-11-11. Retrieved 2009-08-08. At: <http://www.unicode.org/reports/tr17/>
2. Constable, Peter (2001-06-13). "Character set encoding basics". Implementing Writing Systems: An introduction. SIL International. Retrieved 2010-03-19.
3. Devanagari Unicode Chart at: <http://unicode.org/charts/PDF/U0900.pdf>
4. The Unicode Consortium: <http://unicode.org/>
5. http://baraha.com/v10/help/Keyboards/kan_phonetic.htm
6. <https://www.google.co.in/inputtools/try/>
7. Tools developed by Computational Linguistics Group, Department of Sanskrit, University of Delhi, Delhi-110007 available at: <http://cl.sanskrit.du.ac.in>
8. Tools developed by School of Sanskrit and Indic Studies, Jawaharlal Nehru University, New Delhi. available at: <http://sanskrit.jnu.ac.in>
9. Tools developed by Hyderabad University, New Delhi. available at: <https://sanskrit.uohyd.ac.in/scl/>

Assessment Method:

Internal Assessment:

Project/MCQ/Assignment	12 Marks
Theory Examination	38 Marks
Two Long Questions (one from each unit)	10 x 02 = 20
Three Short Notes (at least one from each unit)	06 x 03 = 18
Total	50 Marks