

**SARDAR PATEL UNIVERSITY**  
**Vallabh Vidyanagar**  
**B.C.A. Semester – VI**  
**US06CBCA25 : Current Trends In IT**  
(Syllabus Effective from June 2020)

**Credits : 4**

**External : 70 Marks**

**Contact Hrs per Week : 4**

**University Examination Duration: 3 Hrs**

**All units carry equal weightage**

Unit	Description in detail
<b>I</b>	<b>Data Analytics</b> Data Warehouse Data Mining Business Intelligence Data Analytics
<b>II</b>	<b>Machine Learning</b> Introduction to AI AI and Related Fields Expert Systems Introduction to Fuzzy Logic Applications of AI
<b>III</b>	<b>Search Engine Optimization</b> Internet Basics Internet Marketing Search Engines Basics Search Engine Algorithm - Vector Space Model Using Search Engine Search Engine Optimization
<b>IV</b>	<b>IOT And Cloud Computing</b> Introduction to Internet of Things Introduction to Cloud computing & Evolution of Cloud Computing Applications of Cloud Computing Benefits –Limitations of Cloud Computing Cloud Services Cloud Computing hardware and infrastructure

**Basic Text & Reference Books :-**

1. Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier, 2nd Edition, 2006.
2. Introduction to Data Mining – Pang-Ning Tan, Michael Steinbach and Vipin Kumar, Pearson education.
3. Artificial Intelligence -By Elaine Rich And Kevin Knight (2nd Edition) Tata Mcgraw- Hill
4. Artificial Intelligence: A Modern Approach, Stuart Russel, Peter Norvig, PHI
5. The Art of SEO: Mastering Search Engine Optimization by Eric Enge, Stephan