

# Uttarakhand Sanskrit University

## Haridwar



## SYLLABUS

## FOR

**Acharya (M.A.) – I & IV Semester**

**OC (Open Course)**

**Subject - Computer Science (OC-01 & OC-02)**

**(Year 2019-2020)**

**Uttarakhand Sanskrit University, Haridwar**

**Acharya (M.A.) – I & IV Semester**

**OC (Open Course)**

**Subject - Computer Science (OC-01 & OC-02)**

Objective of Syllabus	The syllabus is designed to equip a student to use computers for professional as well as day to day use. It provides theoretical background as well as knowledge of Computer Fundamental, Software/Hardware, Multimedia, ICT, Internet, Computer tools for Sanskrit and latest trends of information technology.
Syllabus Outcome	After completing the Syllabus the students will be digitally literate and will be able to: <ul style="list-style-type: none"><li>• Acquire confidence in using computer techniques available to users;</li><li>• Recognize the basic components of computers and terminology;</li><li>• Understand multimedia management and ICT;</li><li>• Uses of Sanskrit Software, Application and Sanskrit Websites;</li><li>• Understand computer networks, and browse the internet, content search, email and collaborate with peers;</li><li>• Use e-Governance applications; and use computer to improve existing skills and learn new skills;</li><li>• Understanding Social Networking platform;</li><li>• Using internet for Digital Financial services;</li></ul>
Medium of Instruction	Hindi / English
Program Passing Rules	As per norms of University.

**Uttarakhand Sanskrit University, Haridwar**  
**OC (Open Course)**  
**Acharya (M.A.) – I Semester**  
**Subject: Computer Science (OC-01)**  
**Paper Name: Computer Fundamental**

**Time: 03 Hours**

**Total Marks: 100**

<b>OC-01</b>	<b>Computer Fundamental</b>	<b>Total: 100</b>
1	Characteristics of Computers, CPU, Computer System, Computer Memory, Types of Memory, Input, Output, Storage units.	30
2	Number System, Binary number system, Binary to Decimal Conversion, Decimal to Binary Conversion, ASCII Code, Unicode.	15
3	Computer Software- System Software, Application Software, Compiler, Names of some High Level Languages, Free Domain Software, Typing Tools and Software.	30
4	Multimedia- What is Multimedia, Text, Graphics, Animation, Audio, Images, Video; Multimedia Application in Education, Entertainment, Marketing. Names of common multimedia file formats.	25

**Reference Books:**

- 1) *P. K.Sinha, P. Sinha*, Fundamentals of Computers, BPB Publishers, 2007
- 2) *A. Goel*, Computer Fundamentals, Pearson Education, 2010.
- 3) *P. Aksoy, L. DeNardis*, Introduction to Information Technology, Cengage Learning, 2006
- 4) Computer Fundamentals (Hindi) By P.K. Sinha, BPB Publications.
- 5) Parekh Ranjan, “Principles of Multimedia”, Tata McGraw-Hill, 2007

**Uttarakhand Sanskrit University, Haridwar**  
**OC (Open Course)**  
**Acharya (M.A.) – IV Semester**  
**Subject: Computer Science (OC-02)**  
**Paper Name: Internet Technology**

**Time: 03 Hours**

**Total Marks: 100**

<b>OC-02</b>	<b>Internet Technology</b>	<b>Total: 100</b>
1	Introduction to Internet, Internet Applications, LAN, MAN, WAN, WiFi, HTTP, WWW, URL, ISP, Web Browser, Search Engine, E-mail, Audio and Video-conferencing, Social Networking, Google Docs;.	25
2	Online Education, E-learning, On-line methods (Swayam, Swayamprabha, MOOCs etc.), Interactive Sanskrit Learning Tools, Sanskrit websites.	25
3	ICT: Introduction, Application of ICT, Modern and ICT based Teaching Support System; Introduction of e-Commerce and e-Governance; Introduction of Mobile Commerce;	25
4	Electronic Payment System: Introduction, Online payment systems – prepaid and postpaid payment systems, e-cash, e-cheque, Smart Card, Credit Card, Debit Card, Online banking (net banking), mobile wallet, UPI, BHIM, PAYTM app, Payment gateway, Security issues on Electronic payment system;	25

**Reference Books:**

1. A. Goel, Computer Fundamentals, Pearson Education, 2010.
2. P. K.Sinha, P. Sinha, Fundamentals of Computers, BPB Publishers, 2007
3. Computer Fundamentals (Hindi) By P.K. Sinha, BPB Publications
4. Turban, Efraim, and David King, “Electronic Commerce: A Managerial Perspective”, 2010, Pearson Education Asia, Delhi.
5. Whiteley D, “E - Commerce: Strategy, Technologies and Applications”, Tata McGraw hill, 1st edition.