



**SARDAR PATEL UNIVERSITY**  
**Vallabh Vidyanagar, Gujarat**  
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)**  
**Syllabus with effect from the Academic Year 2021-2022**

---

(Bachelor of Library and Information Science) (Library and Information Science)  
(BLISc) (Library and Information Science) Semester II

Course Code	UA02CLIB52	Title of the Course	Computer Application – Theory
Total Credits of the Course	5	Hours per Week	5

Course Objectives	<ol style="list-style-type: none"><li>1. To build skill of basics of computer.</li><li>2. To generate proficiency in hardware and software packages.</li><li>3. To improve skills of flowchart and algorithm.</li><li>4. To explain various aspects of library automation.</li><li>5. To classify how computers can be used in libraries.</li><li>6. To build awareness about information communication technology.</li></ol>
-------------------	---

Course Content		
Unit	Description	Weightage (%)
1.	<b>Information Technology:</b> Definition, need, scope and objectives Historical development of computers Generation of computers Classification of computers	25
2.	<b>Computer Architecture:</b> CPU Hardware Input and output devices Peripherals	25
3.	<b>Operating System:</b> Single & multi- user systems Basic features of MS-DOS, MS- Windows, Linux, UNIX, Windows- NT Programming languages: concepts and tools Algorithm and Flowcharting Concept of Proprietary Software, Open Source Software, Freeware, Shareware	25
4.	<b>Library Automation &amp; Net Working:</b> Overview Of SOUL and KOHA Housekeeping functions- Acquisition, Processing, Circulation, Serial Control Networks- Definition, Need , Purpose and Types of Network Network Topology: Bus, Ring, Star, Tree, Mesh, Hybrid Internet	25



Teaching Learning Methodology	Class Room Teaching Practical Work through Computer Lab Use of Resources through Central Library .PPT Presentation Online Teaching Through off campus Library Visit and Study Tour Seminar & Presentation Mode
-------------------------------	--

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3.)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3.)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Explain the structure of computer and functions of its various units.
2.	Classify the types of computers and various operating systems.
3.	Plan and implement automation in library housekeeping operations and services.
4.	Highlight the nature and components of computer networks and their protocols and Standards.
5.	Discuss of Internet, search engines and network security.

Suggested References:	
Sr. No.	References
1.	Leon, A. L. (n.d.). <i>Fundamentals of Information Technology</i> . Chennai: Leon TechWorld.
2.	Radhakrishna, P. (n.d.). <i>Computers and Information Technology</i> . Hyderabad: Hitech.
3.	Kumar, P. S. (2003). <i>Information Technology: Basics</i> . Delhi: B R Publishing Corporation.
4.	Rani, Y. S. (2015). <i>Information technology in Library Science</i> . Delhi: SBW Publishers.
5.	Riaz, M. (1991). <i>Library Automation</i> . Islamabad: EBSCO Subscription Services.
6.	Singh, M. P. (2004). <i>Use of Information Technology in Library and Information Science</i> . Delhi: Abhijeet Publications.
7.	Tripathi, M. (2011). <i>Fundamentals of Information Communication Technology</i> . Agra: Y K Publisher.
8.	Tanenbaum, Andrew S., (2009), <i>Computer Networks</i> , New Delhi: Pearson Education
9.	मिश्रा, महेन्द्रकुमार, (2010) <i>कम्प्यूटर परिचय एवं सूचना प्रौद्योगिकी</i> , जयपुर: राज पब्लिशिंग हाउस.
10.	सिंह, पंकज कुमार, (2011) <i>सूचना संचार प्रौद्योगिक एवं पुस्तकालय, आगरा: वाई के. पब्लिसर्स.</i>
11.	चौधरी, बिस्व्रूप राय अने मिन्डास, देवन्दर सिंह (२०१०), <i>जयनेमिक मेमरी कोम्प्युटर कोर्स</i> , न्यु दिल्ली: झुञ्जुन बुक्स.
12.	पटेल, सतीष, (२०१५), <i>कम्प्युटर नेटवर्क</i> , कुडासरा: सतीष पटेल.
13.	शुक्ल, सतीष प्रकाश अने पाठक, कल्पेश, (२००८), <i>कम्प्युटर शिक्षण</i> , अमदावाड: वारिषेण प्रकाशन.



On-line Resources to be used if available as reference material

On-line Resources

<https://epgp.inflibnet.ac.in/>

<http://egyankosh.ac.in/>

<https://ndl.iitkgp.ac.in/>

<https://www.vmou.ac.in/slm>

<https://baou.edu.in/syllabus-slm-e-books>

[http://spuvvn.edu/administration/service\\_centres/library/collection/index.php](http://spuvvn.edu/administration/service_centres/library/collection/index.php)

<https://nios.ac.in/online-course-material/sr-secondary-courses/library-and-information-science.aspx>

