DEPARTMENT OF TECHNICAL EDUCATION

DIPLOMA IN LIBRARY SCIENCE & INFORMATION MANAGEMENT

FOURTH SEMESTER

Course Title: **Computerized Information Systems and Services**	Course Code: **15LB42T**
Type of course: **Theory** **CIE – 25 Marks**	Total Contact Hours: **52** **SEE – 100 Marks**

PRE REQUISITE: Basic knowledge of information systems and services

COURSE OBJECTIVES:

1. Know the concept and evolution of computerized information service
2. Appreciate the use of internet as a source of information.
3. Identify the Different Web Browsing tools
4. Understand various protocols used over internet and internet addressing methods.
5. Appreciate and understand the use of library software for library operation, library acquaintance with open sources library software
6. Know the recent development in information technology and their application in information services

UNIT NOS	CONTENTS	NO. OF HRS
1.	Computerized information services	06
2.	Internet	12
3.	World Wide Web	10
4.	Web browsing, web searching tools, Internet as an information source.	06
5.	Internet Protocols and Internet addressing	10
6.	Recent trends in Information Technology	08

UNIT - 1 **Computerized information services:**
Concept, meaning, methods and techniques. Evolution- Online and offline services.

UNIT - 2 **Internet**
Internet: Introduction - Meaning, Definition, Evolution, Connectivity options. Client-Server Architecture. Hardware and software issues of internet. Acquaintance with the terms used in internet service

UNIT – 3 **World Wide Web**
WWW: Meaning, Home Page, Web page, HTML, HTML tags. Ethical and legal issues involved in the use of internet. Principles, procedure and pre-requisite for web page creation, World Intellectual Property Organization (WIPO)

Unit - 4 **Web browsing, web searching tools, Internet as an information source.**

Web browsing: Meaning, Web browser software – MS Internet Explorer, Netscape Navigator lynx. Web searching tools : Web directories, web indexes, search engines, web meta searchers, blogs, deep web. Use of internet as an information resource,

Unit-5 **Internet Protocols and Internet addressing**

Internet addressing: IP address, Domain Name, URL, E-mail addressing system. Internet Protocols: TCP/IP, FTP, HTTP, SMTP

Unit -6 **Recent trends in Information Technology**

Information Technology – meaning – definition, tools. Impact of Information technology on library services. Recent trends in information technology

COURSE OUTCOME: At the end of the course the student will be able to:

1. Distinguish Online and Offline Information Services, Methods and Techniques used in Computerised Information Services.
2. Choose the appropriate Hardware and Software for Internet Service in a given situation.
3. Select an appropriate Web Browsing Software.
4. Evaluate Web Searching Tools in Search of Information.
5. Distinguish various protocols used in Internet Framework.
6. Anticipate the role of emerging ICT influencing society

MAPPING

Course outcomes with program outcomes and specification table with hours and distribution of marks with cognitive level

Course outcomes	Mapped PO	Teaching Hours	Distribution of Theory Marks as per Cognitive levels			Total marks
			R	U	A	
1	1,2,3,5	06	5	10	-	15
2	1,2,3,8	12	5	10	20	35
3	1,3,4,5,9	10	5	15	10	30
4	1,2,3,5	06	5	10	-	15
5	1,2,3,4,7,8	10	5	15	05	25
6	1,2,6,10	08	5	10	10	25

R-Remember; U-Understanding; A-Application

Course with program outcomes Level mapping

Name of the course	Program Outcomes									
	1	2	3	4	5	6	7	8	9	10
Computerized information systems & services	3	3	3	2	3	1	1	2	1	1

Level 3- Highly Addressed, Level 2-Moderately Addressed, Level 1-Low Addressed.

Method is to relate the level of PO with the number of hours devoted to the COs which address the given PO.
If ≥40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 3
If 25 to 40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 2
If 5 to 25% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 1
If < 5% of classroom sessions addressing a particular PO, it is considered that PO is considered not-addressed.

COURSE ASSESSMENT AND EVALUATION

	What		To Whom	Frequency	Max Marks		Evidence Collected	Course Outcomes
					Theory	Practical's		
DIRECT ASSESSMENT	CIE- Continuous Internal Assessment	I A Tests	Students	**Theory:** Three IA tests for theory (Average marks of three IA tests are considered)	20		Blue Books	1 to 6
		Class room Assignments		Assignment	05		Log of activity	1
				TOTAL	25			
	SEE- Semester End Examination	End Exam		End Of the Course	100		Answer Scripts	ALL CO's
INDIRECT ASSESSMENT METHODS	Student Feedback on course		Students	Middle Of The Course	Feed Back Forms			
	End of Course Survey			End Of The Course	Questionnaire			

Note: I.A. test shall be conducted for 20 marks. Average marks of three tests shall be rounded off to the next higher digit.

Note to IA verifier: The following documents to be verified by CIE verifier at the end of semester

1. Blue books (20 marks)
2. Student suggested activities report for 5 marks
3. Student feedback on courses regarding Effectiveness of Delivery of instructions & Assessment Methods

Question for CIE and SEE will be designed to evaluate the various educational components, such as:-

Remembering and understanding : 45% weight age

Applying the knowledge acquired from the course : 40% weight age

Analysis : 15% weight age

MODEL OF RUBRICS/CRITERIA FOR ASSESSING STUDENT ACTIVITY

RUBRICS FOR ACTIVITY (5 marks)						
Dimension	**Unsatisfactory 1**	**Developing 2**	**Satisfactory 3**	**Good 4**	**Exemplary 5**	**Student Score**
Collection of data	Does not collect any information relating to the topic	Collects very limited information; some relate to the topic	Collect much information; but very limited relate to the topic	Collects some basic information; most refer to the topic	Collects a great deal of information; all refer to the topic	Ex: 4
Fulfil team's roles & duties	Does not perform any duties assigned to the team role	Performs very little duties but unreliable	Performs very little duties	Performs nearly all duties	Performs all duties of assigned team roles	5
Shares work equally	Always relies on others to do the work	Rarely does the assigned work; often needs reminding	Usually does the assigned work; rarely needs reminding	Normally does the assigned work	Always does the assigned work without having to be reminded	3
Listen to other Team mates	Is always talking; never allows anyone else to speak	Usually does most of the talking; rarely allows others to speak	Talks good; but never show interest in listening others	Listens, but sometimes talk too much	Listens and speaks a fair amount	2
Average / Total marks=(4+5+3+2)/4=14/4=3.5=4						

Note: This is only an example. Appropriate rubrics/criteria may be devised by the concerned faculty (Course Coordinator) for assessing the given activity.

FORMAT OF IA TEST QUESTION PAPER (CIE)

Test/Date and Time	**Semester/year**	**Course/Course Code**	**Max Marks**
Ex: I test/6 th weak of sem 10-11 Am	IV SEM	Computerized Information Systems and Services	20
	Year: II	Course code:15LB42T	

Name of Course coordinator : Units:__
CO's:____

Question no	**Question**	**MARKS**	**CL**	**CO**	**PO**
1					
2					
3					
4					

Note: Internal choice may be given in each CO at the same cognitive level (CL).

REFERENCE:

1. Kent: 10 Minute Guide to the Internet. PHI, New Delhi
2. Crumlish: The Internet for busy people. Tata McGraw-Hill, New Delhi
3. Ron Mansfield: Working in Microsoft Office. Tata McGraw-Hill, New Delhi
4. Wempen: 10 Minute Guide Microsoft Access. PHI, New Delhi
5. Acklen and others: Micro Officer 97 Professional Essentials. PHI, New Delhi
6. Fulton and others: The Big Basics Book of Micro Office 97. PHI, New Delhi
7. Jennings: Special Edition Using Microsoft Access 2000. PHI, New Delhi
8. N V Jagga Rao & M Ramchander: Books to Bytes: Library Information Delhi
9. Technology in the New Millennium. Ess Ess, New
10. R L Sehgal: Computer based Information Processing Techniques for
11. Librarians 2 Vols. Ess Ess, New Delhi
12. C Malayya: Electronic Libraries. Ess Ess, New Delhi
13. P K Mahapatra and B Chakraborthi: Encyclopaedia of Library Science
14. & Information Technology. 6 Vols. Ess.
15. R L Sehgal: Information Technology for Librarians. Ess Ess, New Delhi.
16. R Raman Nair: Internet for Library & Information Services. Ess Ess, New Delhi
17. R Raman Nair: Internet for Information Management Services.
18. 2 Vols.(Parts). Ess Ess, New Delhi
19. R M Panigrahi: Impact of Information Technology on Libraries. Ess Ess,
20. New Delhi
21. Shyama Balakrishnan and P.K. Paliwal: Information Technology for the next millennium.
22. Mohan Kumar Galhotra: Information Technology in Library and Information Services.
23. Krishan Gopal: Impact of Information Technology services in Libraries.
24. http://www.infolibrarian.com/eres.html
25. www.dlib.org

MODEL QUESTION PAPER

Time: 3 Hours Max. Marks: 100

Instructions:

1. Question Paper consists of TWO Sections – Part – A, Part – B.
2. Answer any SIX Questions from a set of 9 questions in PART- A, Each question carries 5 marks.
3. Answer any SEVEN questions from a set of 10 questions in PART – B, Each question carries 10 marks.

PART – A

A. REMEMBERING

1. Write a note on CIS
2. Recall MS Internet Explorer
3. List different search engines

B. UNDERSTANDING

4. Discuss OPAC
5. Distinguish Homepage and Webpage
6. Explain WIPO

C. APPLICATION

7. Examine the difference between LAN and WAN
8. Point out different domains with examples.
9. Illustrate different types of Databases on CD ROM

PART – B

A. REMEMBERING

1. Write a note on internet architecture.
2. Write a note on the following
   a. Blog
   b. Deep web
3. Recognize the following
   a. TCP/IP,
   b. FTP
   c. HTTP
   d. SMPT

B. UNDERSTANDING

4. a. Name the different types of CIS.
   b. Explain different types of computerized information service
5. a. List the network topologies.
   b. Summarize Network topology
6. Associate Hardware with Software
7. Discuss the legal issues of internet

C. APPLICATION

8. Develop Printed Indexes
9. Differentiate Online and Offline services
10. Examine the Recent trends in Information Technology

Model Question Bank

1. Describe History of Internet
2. Demonstrate different ways of connecting to internet
3. Discuss the following
   a. FTP,
   b. ISDN,
   c. Protocol server
   d. URL
4. Explain WWW
5. Illustrate ethical issues of internet
6. Recall the factors to be considered before implementing library software
7. Write a note on any one Library software of Indian origin
8. Recite the features of SOUL
9. Discover the use of Internet as Information resource
10. Show how the recent information technology is applied in the library services.
11. Differentiate different types of protocols
12. Explain the major components of Information Technology?
13. State the meaning of online and offline services
14. Explain the legal and ethical issues of internet.
15. State the meaning of
    a. Web Directories
    b. Web indexes
    c. Search engines
    d. Blogs
    e. Web Meta Searches.