C. U. SHAH UNIVERSITY, Wadhwan City
Name of Program : Master of Library and Information Science (M.Lib.I.Sc.)
Semester : II
W.E.F. – June 2016

FACULTY OF: - Arts and Humanities
DEPARTMENT OF: - Library and Information Science
SEMESTER: - II
CODE: - 5AH02NAI2
NAME – Networks and Internet: Theory and Practical

Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							Total
							Theory				Practical (Marks)			
		Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
5AH02NAI2	Networks and Internet: Theory and Practical	4	-	2	6	5	30	1.5	70	3	-	-	50	150

Objectives: -

1.The students understand the organization of computer networks, factors influencing computer networkdevelopment and the reasons for having variety of different types of networks.

2.The students understand the Internet structure and can see how standard problems are solved in that context.

3. The students can analyze simple protocols and can independently study literature concerning computer networks.

Pre requisite: Knowledge of English Language

Course outline:-

Unit	Course Contents	Number of Hours
1	**Data Communication and Channels** ***Basics of Data Communication**- Digital, Analog, Synchronous, Asynchronous, Parallel, Serial, Simplex, Semi-Duplex, Full Duplex Communication, Multiplexing * **Application of Data Communications**– Information Search & retrieval, Information Transmission, Multimedia * **Communication Channels**– Wired Transmission, Telephone Lines, Coaxial Cable, Microwave,Infrared, Laser, Radio	[06]

	communication, Satellite Communication, Fiber Optics,		
2	**Network Components, Models and protocols** * Hardware : Network Devices (NIC, Modem, Router, Bridge, Gateway, Repeater, Hub, Switches) *Software : Network Operating Systems * OSI *TCP/IP	[06]	
3	**Networking Types, Topology and Techniques** * Types of Network: LAN, MAN, WAN, Internet, Intranet, VPN etc. * Network Topologies – Bus, Ring, Star, Mesh, Hybrid etc. * Switching Techniques – Circuit, Message, Packet etc	[06]	
4	**Network , Internet and Internet Security** * Internet architecture and organization * Internet protocols *Internet addressing * Internetworking * Network management * Internet Security and its Privacy, Authentication, Access Control, Integrity, Virus	[12]	
5	**Practical** * Internet search through various search engines * Network based information services	[24]-	

Learning outcomes:

1**.** Data Communication, its applications and various channels

2**.** Networking components (Hardware & Softwares), Various models and protocols related to networking

3**.** Networking types, topologies and techniques

4**.** Network and Internet Security

Teaching and learning methodology:

Board teaching, Class interaction, group discussion, Multimedia tools, through Power Point Presentation, LCD projector, via seminar and assignments, computer laboratory and internet etc…

Recommended Books/Study resources

1**.** Ahmadayaz, A. **handbook for Information Technology**. New Delhi: Anmol Publication, 2003

2**.** Asit Narayan. **Internet Marketing, E-commerce and Cyber Laws**. Delhi, Authors Press, 2000

3**.** Bansal, S.K. **Information technology and globalisation**. New Delhi: A P H Publication, 2001

4**.** Bansal, S.K. **Internet Technologies**. New Delhi: A P H Publication, 2001

5**.** Batra, B.B. **Information Technology: challenges and opportunities**. Delhi: Kalpaz Publications, 2001

6**.** Chandra, Ramesh. **Technilogical changes in Libraries**. Delhi: Kalpaz Publications, 2003

7**.** Chandra, Ramesh. **Information Technology in 21st century**. New Delhi: Kalpaz Publications, 2003

8**.** Kent, Allen. **The structure and governance of Library Networks**. New York. Marshall Deccker, 1979

9**.** Lan Winship. **The students guide to the internet 2000-2001**. London: Library Association Publication, 2000

10**.** Markuson, Barbara Evans**. Network for Networks: critical issue in cooperative library development**, New York: Neal Schuman   Publisher Inc., 1980

11**.** Molyneux, Robert E. **The internet under the hood**. London: Libraries Unlimited, 2005

12**.** Nair, R. Raman. **Internet for information services**. New Delhi: Ess Ess Publications, 2002

13**.** Pandey, V.C. **Information and Communication technology**. Delhi: Isha Books, 2004

14**.** Poulter, Alan. **The library and information professional's guide to the World Wide Web**. London: Library Association Publishing,   1999

15**.** Rao, N.V.Jagga. **Books to bytes: library and information technology in the new millennium**. New Delhi: Ess Ess Publications, 2000

16**.** Rouse, Willium B. **Management of Library Networks**. New York: John Wiley, 1980

17**.** Satyanarayana, N.R. **A manual of Library Automation and Networking**. Lucknow: New Royal Book Co. 2003

18**.** Sehgal, R.L. **An introduction to library network**. New Delhi: Ess Ess, 1996

19**.** Singh, Sankar**. Information Technology in libraries**. New Delhi: Ess Ess, 2003

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FACULTY OF: - Arts and Humanities
DEPARTMENT OF: - Library and Information Science
SEMESTER: - II
CODE: - **5AHO2PRA2**
NAME – **Preservations and Archiving**
Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							Total
		Th	Tu	Pr	Total		Theory				Practical (Marks)			
							Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
5AHO2PRA2	Preservations and Archiving	5	-	-	5	5	30	1.5	70	3	-	-	-	100

Objectives: -

1. Become acquainted with preservation and conservation resources.

2**.**Develop an understanding of the relationship between preservation management and appropriate conservation treatment.

3. Develop capacity for evaluation and application of appropriate conservation treatments.

4. Develop core knowledge of conservation applications for library and archives.

Prerequisites:- Knowledge of English Language

Course outline:-

Unit	Course Contents	Number of Hours
1	**Preservation Management** * Definition, Need, Objectives and issues of preservation * Basic preservation Management * Preservation Principles * Materials to be preserved * Selection of materials Conservation Treatments * Concept of rarity and intrinsic value	[14]

	* Protective enclosures	
	* Selection and review of materials for conservation or replacement	
	* Setting priority for conservation and preservation	
2	**Causes of damage and Control Management**	[14]
	* Indoor and outdoor damage	
	* Human and Insects	
	* Disaster, Disaster response and contingency planning	
	* Technology	
	* Indoor and outdoor	
	* Security issues	
	* User awareness and staff training	
	* Evaluating material	
	* Concept of rarity and intrinsic value	
	* Protective enclosures	
	* Selection and review of materials for conservation or replacement	
	* Setting priority for conservation and preservation	
3	**Digital Preservation**	[14]
	* Concepts, principles and methods of digital preservation	
	* Digitization: Process and Standards	
	* Digital preservation strategy and technology	
	* Digital storage and lifecycle management	
	* Advantages and disadvantages of DP	
	* Issues and challenges for the future	
4	**Archiving:**	[12]
	Basics of archiving, needs, purpose, methods	
	Digital archiving	
	Archiving system: Open source and proprietary	

| | Web Archiving | |
| | Personal archiving | |

Learning outcomes:

1. Method of preservation and conservation of valuable sources

2. Able to identify causes of damage

3. Able to manage the control over security issues

Teaching and learning methodology:

Board teaching, Class interaction, group discussion, Multimedia tools, through Power Point Presentation, via seminar and assignments, quiz contest etc…

Recommended Books/Study resources

1. Alire, Camila. **Library disaster planning and recovery handbook**. New York: Nean-Schuman, 2000

2. Banks, Pilette. **Defining the library preservation programme: policies and organisation**. Morrow: CarolynClark

3. Carlsen, Soren. **Effects of freeze Drying on Paper Pre print from the 9th International Congress of IADA**

Copenhagen August 15-21 1999 Full text available at http:// palimpsest Stanford edu/iada/ta99-115.pdf.

4. Cox, Jack E , and Robert L Barber **Preparing for the unknown: Practical contingency planning Risk Management** 43 (September   1996): 14-20

5. Davis Mary B., Susan Fraser , and Judith Reed **Preparing for Library Emergencies: A Cooperative Approach Wilson Library   Bulletin** (November 1991): 42-44, 128

6. Florian, Marry-Lou E. Heritage Eaters**: Insect and Fungi in Heritage Collections**. London: James & James,1997.

7. Risk Management for Libraries ALA Yearbook of Library and Information Services 15 (1990): 218-219

8. Harrison, H.P. **Emergency Preparedness and Disaster Recovery of Audio Flim and Video Materials IASAJournal** (November   1995): 82- 85.

9. Harvey, Ross Preservation in Libraries **A Reader Topics in Library and Information Studies London**; NewYork: Bowker K.G. Saur,   1993 (Contains reprints of articles and chapters)

10. Preservations in Libraries Principals, **Strategies and Practices for Librarians Topics in Library and Information Studies**. London;   New York: Bowker; K.G.Saur, 1993. (Contains reprints of articles and chapters)

11. **Integratyed Pest management NEDCC News 8**, no. 1 (winter 1998): 4-5

12. Lemley, Don, **Precautions and Safe Practices for Records Storage Systems. Records Management Quarterly** (April 1992): 24-27

13. 5.   E-Publishing and Network Publishing by Dr. J. P. Gondalia, Cyber Tech Publication, New Delhi 2015.

14. Nelton, Sharon. **Prepare for the Worst. Nation's Business 81** (September 1993): 20-28

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FACULTY OF: - Arts and Humanities
DEPARTMENT OF: - Library and Information Science
SEMESTER: - II
CODE: - **5AH02MLS2**
NAME – **Marketing of Library Services**
Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
							Theory				Practical (Marks)			
		Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		University	Total
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr/Viva	
5AH02MLS2	Marketing of Library Services	5	-	-	5	5	30	1.5	70	3	-	-	-	100

Objectives:

1. Apply theoretical and practical marketing concept for libraries

2. Create a marketing plan for library

3. To design effective marketing strategy for library services

4. To create, implement and evaluate public relations, publicity and promotional activity for libraries.

Unit	Course Contents	Number of Hours
1	Introduction: *Concept, nature, scope and importance of marketing; Marketing concept and its evolution; * Library service marketing - Concepts and possibilities *Information as a marketable commodity * Marketing approach and techniques	[14]
2	Strategic planning: * Marketing research *Gathering information and measuring market demand *Analyzing marketing opportunities, Consumer markets and behavior. *Market segment and target audience.	[14]

	*Branding and packaging	
3	**Promotional Activity:** *advertising, sales promotions, public relations and marketing. * Marketing through social media and digital marketing *Long term planning and policy *Role of librarian	[14]
4	**Issues and challenges;** *Ethical and legal aspect of marketing *Role of media * CRM *prepare a marketing plan for your library	[12]

Learning outcomes:

Teaching and learning methodology:

Board teaching, Class interaction, group discussion, Multimedia tools, through Power Point Presentation, via seminar and assignments, quiz contest etc…

Recommended Books/Study resources

1. Kotler, Philip. **Marketing Management**. Ed.12. Delhi: Prentice Hall, 2002

2. Kotler, Philip and Armstrong, Gary**. Principles of Marketing**. Ed.7. New Delhi Prentice Hall of India, 1996

3. Rowley, Jenifer. **Information Marketing**. London: Ashgate, 2001

4. Coote, Helen and Bachlor, Bridget. **How to market your library services effectively**. Ed.2 London: Aslib,

   1997

5. Gupta,D.K.et al**. Marketing Library and information services: international perspectives**. Munich:

   K.G.Saur, 2006

6. Helinsky, Z. **A short-cut to marketing the library**. Oxford: Chandos Publishing, 2008

7. Jain, Abhinanadan K., et al. **Marketing information product and services: a prime for libraries and information professionals**. New Delhi: Tata McGraw-Hill, 1999

FACULTY OF: - Arts and Humanities
DEPARTMENT OF: - Library and Information Science
SEMESTER: - II
CODE: - 5AH02AIS2
NAME – Elective-1 Agricultural information system
Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
							Theory				Practical (Marks)			
		Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		University	Total
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr/Viva	
5AH02AIS2	Agricultural information system	5	-	-	5	5	30	1.5	70	3	-	-	-	100

Objectives:

To develop an awareness of the nature and use of information and information systems in an organisational context

1. Show an understanding of the flow of information within organizations

2. To understand about the importance of agricultural information systems in india

3. To introduce the various techniques used within systems analysis and design

4. To evaluate agricultural information systems

Unit	Course Contents	Number of Hours
1	Introduction: *Information system, system design and analysis. *Growth and development of agricultural science in India. *Needs of agricultural information system, *Agricultural librarianship.	[14]
2	Agricultural research and development *Students and other categories of agricultural users *Identify the needs of agricultural scientist, *User empowerment and information literacy	[14]
3	Collection Development and Management *Collection development: Principles, policies and procedures.	[14]

	*Information sources and services. *Importance of information centers *Needs of National Agricultural Library	
4	Information systems: *AGRIS, ARIS, AGRICOLA,CABI, TEEAL etc *Evluation of agriculture information systems *Issues and challenges.	[12]

Learning outcomes:

1. Students are able to analyze and identify information requirement of agricultural users.

2. Students can evaluate available information systems.

Teaching and learning methodology:

Board teaching, Class interaction, group discussion, Multimedia tools, through Power Point Presentation, via seminar and assignments, quiz contest etc…

Recommended Books/Study resources:

1. Library and Information Systems by K. S. Raghavan & K. N. Prasad, Ess Ess Pub. 2009.

2. Dynamics in Digital Information Systems by A. Amudhavalli, Ess Ess Pub. 2008

3. Information Systems Control & Audit by Ron Weber, Pearson education 2002

4. Agricultural Information Systems Development by Richard Batte, LAP Lambert Academic Publishing 2010

5. Information System for Agricultural Sciences & Technology by P.P. Deshmukh, Metro politan book, 1987

6. Extension science: Information system in Agricultural by Niels rolling, Cambridge university press, 1988

7. Privatization of Information and Agricultural Industrialization by Steven A. Wolf CRC Press 1998

FACULTY OF: - Arts and Humanities
DEPARTMENT OF: - Library and Information Science
SEMESTER: - II
CODE: - 5AH02HIS2
NAME – Elective-1Health information system
Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	Total		Theory				Practical (Marks)			Total
							Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr/Viva	
5AH02HIS2	Health information system	5	-	-	5	5	30	1.5	70	3	-	-	-	100

Objectives:

1. To identify information requirement of health professionals

2. To identify various types of information users in health sector

3. Describe the fundamental components and processes of healthinformation systems

Unit	Course Contents	Number of Hours
1	Introduction: *Information system, system design and analysis. *Growth and development of health science in India. *Needs of health information system, *Health librarianship.	[14]
2	Types of users and requirement: *User category of health informations *Identify the needs of health scientist, *User empowerment and information literacy	[12]
3	Collection development: *Collection Development: Principles, policies and procedures *Information sources and services.	[14]

	*Importance of information centers * Types of health information systems: *Needs of National health information system * Health Science Databases: MEDLARS	
4	Evaluation: *Role of government and non-government organizations *WHO Guideline *Health information networks: HISP *Issues: lack of co-ordinations between government and non-government org, state and central govt. agencies etc., lack of awareness, education. Model for health information system.	[14]

Learning outcomes:

1. Understand healthcare information needs in healthcare research.
2. Students are able to design health information system.

Teaching and learning methodology:

Board teaching, Class interaction, group discussion, Multimedia tools, through Power Point Presentation, via seminar and assignments, quiz contest etc…

Recommended Books/Study resources

1. Library and Information Systems by K. S. Raghavan & K. N. Prasad, Ess Ess Pub. 2009.
2. Dynamics in Digital Information Systems by A. Amudhavalli, Ess Ess Pub. 2008
3. Information Systems Control & Audit by Ron Weber, Pearson education 2002
4. Promoting Better Integration of Health Information Systems by Michelsen, K. WHO regional office 2015
5. Information Systems for Health Care Enterprises by Roy Rada IGI Publishing 2008
6. Integrated health information systems by Edwin Nyella, VDM Verlag 2008

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FACULTY OF: - Arts and Humanities
DEPARTMENT OF: - Library and Information Science
SEMESTER: - II
CODE: - **5AHO2DIS1**
NAME – **Dissertation** (Elective 2)
Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
							Theory				Practical (Marks)			
		Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		University	Total
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr/Viva	
5AH02DIS1	**Dissertation**	2	6	-	8	5	-	-	-	-	50	-	100	**150**

1. The marks allocation out of 150 marks shall be 70 marks of written dissertation/project report and 30 marks of viva-voce and 50 marks for internal viva.

2. The Dissertation on any assigned topic in the field of Library and Information Science or allied subjects.

3. The Dissertation report will be based on a given topic individually. A Student will select his/her topic inconsultation with H. O. D. and his/her guide.

4. The Dissertation should be prepared under the guidance of a member of the faculty at M.L.I.S course.

5. The Dissertation report not less than 100 pages (Typed Computer printout) and size of the The Dissertation shall be A4 size papers and shall have typed in double spaces.

6. The Dissertation shall embody the original research and will have to be certified by the student and the guide.

7. Two copies of The Dissertation shall be submitted by the student duly certified by the guide.

8. The Dissertation shall be evaluated by two examiners (one internal + one external)

9. The Dissertation shall be submitted at least Two week before the commencement of the university Examination

10. Guiding the students for the dissertation Report the Coordinator will arrange guidance / counseling lectures from the faculty teaching at M.Lib.I.Sc. Course.

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FACULTY OF: - Arts and Humanities
DEPARTMENT OF: - Library and Information Science
SEMESTER: - II
CODE: - 5AH02PRJ2
NAME – Project (Elective 2)
Teaching and Evaluation Scheme:-

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
							Theory				Practical (Marks)			
		Th	Tu	Pr	Total		Sessional Exam		University Exam		Internal		University	Total
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr/Viva	
5AH02PRJ2	**Project**	3	-	6	9	6	-	-	-	-	50	-	100	**150**

1. The marks allocation out of 100 marks shall be 70 marks of written project report and 30 marks of viva-voce and

2. The Project report on any assigned topic in the field of Library and Information Science or allied subjects.

3. The Project report will be based on a given topic individually. A Student will select his/her topic in consultation with H. O. D. and his/her guide.

4. The Project report should be prepared under the guidance of a member of the faculty at M.Lib.I.Sc. course.

5. The Project report not less than 100 pages (Typed Computer printout) and size of the The Project report shall be A4 size papers and shall have typed in double spaces.

6. The Project report shall embody the original research and will have to be certified by the student and the guide.

7. Two copies of The Project report shall be submitted by the student duly certified by the guide.

8. The Project report shall be evaluated by two examiners.

9. The Project report shall be submitted at least one month before the commencement of the university Examination

10. Guiding the students for the Project Report the Coordinator will arrange guidance / counseling lectures from the faculty teaching at M.Lib.I.Sc. Course.

NOTE: TO FAMILIAR WITH THE FUNCTIONING OF VARIOUS TYPES OF LIBRARIES STUDY TOUR IS COMPULSORY FOR ALL THE STUDENTS.

- For practical approach and training purpose 1 month internship is mandatory

- Medium of instruction is English and Gujarati and students are free to select the medium.