DIRECTORATE OF DISTANCE EDUCATION (DDE)

MASTER OF LIBRARY & INFORMATION SCIENCE (M.Lib.I.SC.)

Learning Outcomes and Syllabus of Each Course

SEMESTER - I
INFORMATION COMMUNICATION AND SOCIETY
(MLI-221)

Learning Outcomes:

After completing this paper, learners will be able to understand the followings:

- The learners will be learnt more about the Information, its generation and how to communicate to the needy people of the society
- The learners learn more about the present knowledge based society
- They also learn more on the usefulness of information, information management and scientific information, which is more useful for research.
- They may be learn more about the Knowledge management, its principles, components to solve organisational problems where they worked.

Unit - I: Information
- Information: Characteristics,   Nature, value and use.
- Conceptual difference between data, information and   knowledge.

Unit - II: Communication
- Communication of information: Information generation.
- Communication channels, models and barriers.
- Trends in Scientific Communication.

Unit - III: Information society
- Genesis and characteristics and implications of information society.
- Intellectual Property Act,
- International and National Programs and policies (NAPLIS) and IT.

Unit - IV: Information Management
- Project Management: SWOT, PEST, PERT / CPM.
- Management Information System (MIS), MBO, Change Management, Disaster Management, Crisis Management.

Unit - V: Knowledge Management
- Principles, Tools, Components and Architecture.

Recommended books

1. Gragon, Devis. J. Science and Technology and introduction to literature . 2nd ed 1976.
2. Martin, WJ. Communication , Knowledge and Librarian . London : Butterworths, 1974
3. Mc Garry , Devin, Communication, ,Knowledge and librarian . London : Clive Bingely, 1981.
4. Meadows, A. J. Communication in Science , London: Butterworth. 1974
5. Price, de Solla. Little Science and Big Science . New York: Columbia University press, 1986.

INFORMATION SYSTEMS AND PROGRAMS

(MLI-222)

Learning Outcomes:

After completing this paper, learners will be able to understand the followings:

- The learners will become mastery in the subject and put their efforts to achieve the goals of an organisation

- The learners learnt about the information policies and programmes of their respective National Information Systems

- They learn about the different kinds of Information Networks at Global Level as well as National Level.

- They also learnt about the national and international information systems and their activities to implement in the organisations where they work.

Unit - I: Introduction to information systems.
- Information system: concept and characteristics
- Components of Information systems
- Planning and designing: National Information system

Unit - II: Marketing of library Information services and products
- Plan, research, strategies, mix, segmentation, pricing and advertising; management consultancy

Unit- III: Literature search and standards
- Reference, Literature search and referral services
- Standards for documentation: MARC

Unit - V: National information systems in India
- Information systems, programs and Networks in India. (NISCAIR, SSDR, DESIDOC, ENVIS, NASSDOC)

Unit- IV: International Information systems and programs
- UN and its specialized agencies – based information systems and programs.(UNISIST, AGRIS, DEVSIS)
- INSPEC, ISI, CAS, BIOSIS

Recommended books

1. Atherton, Pauline. Hand book of information systems and services. Paris. Unesco, 1977.
2. Champman E.A. Library Systems . Analysis Gidelines , 1970.
3. Weisman. HM . Information sytems . Services and Centres. New York: Beekar and Hayness, 1972.

LIBRARY AUTOMATION & DIGITAL LIBRARIES THEORY
(MLI-223)

Learning Outcomes:

After completing this paper, learners will be able to understand the followings:

- The learners will be learnt more about the need and importance of library automation and available software commercial as well as open source
- The learners learn more about different housekeeping operations
- They also learn more on the application of barcode, RFID, QR Code, Biometric , which are more useful for library automation
- They may be learn more about the objectives, different components of digital libraries and know about digitization process and different digital library software to implement digital libraries

Unit I: Library automation
- Meaning, definition, history, need and importance
- Areas, planning, selection of hardware and software, implementation and evaluation
- Standards for library automation
- SOUL, Koha, NewGenlib software packages

Unit II: Housekeeping operations
- Acquisition, cataloguing, circulation, serials control, OPAC, WEBOPAC, Web- Scale discovery services

Unit III: Application of barcode, RFID, QR code, Biometric
- Smart card; features and applications

Unit IV: Introduction to digital libraries
- Aims and objectives, introduction, definitions, Evolution of digital library, digital library initiatives, technical developments, components of a digital library, digital library technologies, digital library benefits and limitations

Unit V: Digitization and digital library software
- Digitization process
- Digital library software: D-space, E-prints, Greenstone
- Metadata
- Management of digital libraries
- Institutional repositories; ROAR, DOAR, SHERPA- RoMIO

Recommended books

1. Borgman, C. L. (1999). What are digital Libraries- Competing Visions, *Information Processing & Management*, 35(3), (p.227-243)
2. Dr. B.R. Ambedkar Open University (2008). *Application of information technology (MLS-05)*: Course material. Hyderabad.
3. Haynes, David (2004). Metadata for information management and retrieval. London: facet publishing.
4. Tiwari, Purushotham (2010). *Library Automation*. New Delhi: APH Publishing corporation.
5. Upadyay, P (2000). Intellectual property rights in the digital age, NACLIN, IIT Chennai (p.260-266)
6. Best practice examples in library digitization. Retrieved from http://www.europeanatravel.eu /downloads/ETravelD2%202final.pdf
7. Dspace: http://www.dspace.org/
8. Eprints: http://www.eprints.org/
9. Greenstone: http://www.greenstone.org/

DIGITAL LIBRARIES PRACTICE

(MLI-224)

Learning Outcomes:

After completing this paper, learners will be able to understand the followings:

- The learners will become mastery in the installation of digital library software to build digital libraries

- The learners may get extensive training on digital library software to implement and establish digital libraries

- They learn about the building various databases, communities and collections at Global Level as well as National Level.

- They also learnt about the hosting of digital libraries and acquire skills about searching techniques of digital library resources.

Unit I : Understanding and installation of any one of the popular digital library software:

D-space, E-prints, Greenstone etc.,

Unit II: Extensive training on digital library software

Unit III: Building of databases/communities/collections

Unit IV: Hosting of digital library

Unit V: Searching national and international digital library resources/institutional repositories

Recommended books

1. Dspace: http://www.dspace.org/
2. Eprints: http://www.eprints.org/
3. Greenstone: http://www.greenstone.org/

RESEARCH METHODOLOGY

(MLI-225)

Learning Outcomes:

After completing this paper, learners will be able to understand the followings:

- The learners will learn about the need and importance of the social science research.

- They learnt that scientific research and applied research, which are more useful to the development of society.

- The learners will be able to understand the societal problems/issues and provides appropriate solutions by conducting appropriate survey researches.

- By conducting a historical research, the learners will be known about the past events and may be implement for future development of society.

Unit - I: Research
- Definition need and purpose of research
- Types of research: Fundamental and applied
- Research and development of scholarship
- Library and Information Science research

Unit - II: Research Design
- Conceptualization and operationalisation
- Types of research design
- Identification and formulation of research problem
- Hypothesis: Definition, formulation and types: Descriptive, relational and explanatory, Null hypothesis, Verification
  - Designing Research proposal, Ethical aspects of research
  - Literature search – print, non – print and electronic sources

Unit - III: Research Methods
- Scientific method, Historical method, Descriptive method
- Survey method and case study method
- Experimental method, Delphi method and Sociometry

Unit - IV: Research techniques and tools
- Methods of data collection: Primary and secondary
- Primary data – Questionnaire, interview and observation
- Secondary data – Historical / recorded
- Scales and checklists

Unit - V: Data analysis and interpretation
- Descriptive statistics – Measures of central tendency–Measures of dispersion- variance and covariance

- Graphical presentation of data - Bar, Pie diagrams, graphs, histograms etc.
- Inferential statistics- Z– T test. Correlation- Regression: Linear and nonlinear– Chi square test. Statistical packages – SPSS
- Research reporting: structure, style and contents – Guide lines for Research reporting – - Style Manuals: Chicago, MLA, APA, etc e-citation and Method of research evaluation

Recommended books

1. Charles. H Busha and Stephen, P. Harter . Research Methods in librarianship. Techniques and interpretation . New York : Academic Press. 1980.
2. Maurice. B line . Library surveys. 2ND ED. London : Bingley , 1982
3. Nickmoore and Martin Hesp. The Basics of writing reports etcetera. London Bingley , 1985.
4. Goode, William and Hatt, Paul K. methods in social research. New York: Mc Graw – Hail Book Company , Inc, 1952.5.
5. Gopal , MH . An introduction to research procedure in social sciences, New Delhi : Vikas , 1992.

UDC & LIBRARY AUTOMATION PRACTICE

(MLI-226)

Learning Outcomes:

After completing this paper, the learners will be able to understand the followings:

- The library science learners will become more professionals in organising the library materials on the shelves

- They may be able to solve day-to-day technical problems by way of doing automation personally

- The learners also will become mastery on use of the library classification system, especially, in special libraries to arrange the library resources systematically and provide timely library services to its specialised users.

- The learners my also learnt that the library automation procedure and use of ICT facilities to implement in specialised libraries.

Unit I: Universal Decimal Classification

- Classifying complex subject titles including periodical titles according to Universal Decimal classification.

Unit II: Training on SOUL library automation software

Unit III: Training on KOHA library automation software

Unit IV: Generation of barcodes

Unit V: Use of OPAC, WEB OPAC and World Cat

Recommended books

1. Dr. B.R. Ambedkar Open University (2008). *Application of information technology (MLS-05)*: Course material. Hyderabad.
2. Tiwari, Purushotham (2010). *Library Automation*. New Delhi: APH Publishing corporation.
3. Classroom: Basic site layout and navigation in Dreamweaver.
   http://tv.adobe.com/show/classroom-basic-site-layout-and-navigation-in-dreamweaver-cs5/
   frontpage_basics.html

INFORMATION COMMUNICATION NETWORKS

(MLI-227)

Learning Outcomes:

After completing this paper, learners will be able to understand the followings:

- The learners will become get knowledge about telecommunications and satellite communications.

- The learners learnt about the concept of computer networks and their different types

- They learn on the subject of national information systems and networks and various online learning courses which are essential for today's learning environment.

- They also learnt about the library resource sharing and consortia models and present buzz word web technologies concepts and different components.

Unit I: Telecommunication
- Meaning and definition
- Signals: Analog and digital components
- Process: Modulation and Demodulation
- Transmission media: Pair of wires, Coaxial cables, Optic fibres
- Satellite communication, V-SAT, Microwaves, wireless communications

Unit II: Computer Networks
- Networks: Concept, Definition, Need, Uses, Network Topologies
- Types of Networks: LAN, MAN and WAN
- Network architecture, Network protocols: TCP/IP, SMTP, HTTP, SHTTP, FTP, URI, URL

Unit III: National Information Systems and Networks
- NISCAIR, DESIDOC, SENDOC, ENVIS, INFLIBNET, DELNET, NICNET, ERNET, National Knowledge Network (NKN), Biotechnology Information system Network
- Online learning courses: Concept, need and importance, MOOCs, SWAYAM COURSES, Quadrants, and National Coordinators

Unit IV: Library resource sharing and Library consortia
- Need, importance and objectives, types
- Library consortia in India: FORSA, NKRC, HELINET, UGC-E Shodhsindhu, CeRA, etc.
- Library consortia in abroad: CARL, CONCERT, CURL, EIFL AND ICOLC

Unit V: Web Technologies
- Web 2.0 and 3.0, Library 2.0 – concept, characteristics, components; Instant messaging, RSS Feeds, Podcasts, Vodcasts, Ask a Librarian
- Mobile based Library services

Recommended books

1. Andrew S.T.& David J.W (2011) Computer networks, Boston: Pearson Prentice Hall,.
2. Balakrishnan, S. (2000), Networking and the future of Libraries, New Delhi: ESS ESS.
   Bose, k. (1994), Information networks in India: Problems and Prospects New Delhi: ESS ESS.
3. Jeanne, F.M. (2006). A librarian's guide to the Internet: A guide to searching and Evaluating information, Oxford: Chandos Publishing.
4. Kumar,P.S.G.(2004), Information technology: Applications (Theory and Practice). Delhi: B.R Publishing.
5. Zorkoczy , P. (2005) , Information technology: An introduction, London: Pitman2 Bell, A, (2009).Exploring Web 2.0: Second generation internet tools blogs, Podcasts, wikis, networking, virtual Worlds, and more. Georgetown, TX: Katy crossing Press.
6. Campesato, O., & Nilson, k. (2011), Web 2.0 fundamentals with Ajax, development tools, and mobile platforms, Sudbury , Mass: Jones and Barlett Publishers,
7. Shah., S. (2008). Web 2.0 Security : defending Ajax, RIA, and SOA., Boston; Charles River Media.
8. Shelly, G.B., & Frydenberg, M. (2011), Web 2.0: concepts and applications. Boston, MA: course Technology.

DISSERTATION / PROJECT WORK

(MLI-228)

Learning Outcomes:

After completing all the theory papers and practices, the learners will be able to understand the followings:

- The ODL learners will get the complete knowledge on the programme
- The distance students able to submit one dissertation or project. Through this assignment, they understand about the research, its importance and use for the development of society.
- The learners able to enrich new knowledge with this practical