



Netaji Subhas Open University

PROGRAMME GUIDE

For

**Post Graduate Degree in Library and Information Science
(MLIS)**

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A. Preface by VC

B. Introduction by Director

1. EXPECTATION FROM THE LEARNERS

Library and Information Science (LIS) is a service oriented profession. As long as there will be aspiration for knowledge and exploration, there will be demand for Library and Information Services. The objectives of such services are to satisfy the information needs in a pinpointed, exhaustive and expeditious way of those who need them to fulfil their specific information requirement. Though the advancement of Information and Communication Technology enhances the service greatly, it may comprise of quite complicated processes for which human-touch in providing the service is very crucial. Therefore, the learners of future LIS professionals need to go through an augmented teaching-learning process befitting the profession.

Netaji Subhas Open University as a leading Higher Education Institute offering its academic programmes through Open and Distance Learning mode, delivers programme on Master of Library and Information Science (MLIS). This is a one-year programme incorporating theoretical and practical approaches of the Library and information services.

The learners of the MLIS programme of NSOU are all distributed throughout the remote corners in the State of West Bengal. Equipped well with all possible types of support services provided by the university both in physical and digital forms, they are supposed to pursue their study on their own as per the norms of flexibility of the ODL system. They are expected to raise self-motivation towards comprehending the philosophical, theoretical aspects of the Library and Information Science discipline, as well as obtaining the skill for methodical practices for providing Library and

Information Services. They are also expected to apply their intuitive knowledge and enthusiasm in coping up with the emerging tools and technologies in their professional domain so that they gain the confidence to serve the diverse groups of information seekers.

2. COURSE INFORMATION

Master of Library and Information Science (MLIS) offered by NSOU is a one-year academic programme. The Board of Study for MLIS Programme is the authority for conducting this programme.

For a learner, once admitted the registration remains valid for a period of maximum 3 (three) years. The eligibility criteria required for taking admission in the programme is Bachelor of Library and Information Science (BLIS) degree from a recognized University or Other Graduate (10+2+3) with at least 300 marks of study in Library Science/Library and Information Science/Information Science.

The MLIS programme comprises nine courses of each 100 marks. The courses include seven compulsory theory papers, one elective paper (for which there are three options of papers), and one paper on a dissertation project.

Having achieved practical skill at the BLIS and MLIS level, the learners of MLIS programme are provided with the scope for applying their practical competence while conducting their dissertation work. They may conduct the study in the area of their interest within the purview of the coverage of the discipline. They are provided with study-guidance from subject experts at their home place.

The learners are offered Self-Learning Materials (SLMs), A/V lectures, Access to the university library for OPAC and reading-room and photocopying facilities. They are also offered well-conducted Personal contact Programmes (PCPs), Special Lecture Programmes, Workshops, Seminars, etc. Such programmes are conducted in a

distributed manner, in the University Regional Centres and different Learners Support Centres, so that resources may reach to them at their doorsteps. Such programmes are delivered by the Faculty Members of the Department of Library and Information Science and in some cases guest resource Persons are to be engaged as Academic Counsellors. Moreover, the learners may approach and access any-time online access to the concerned faculty members of the university. Workshop and orientation programmes for Academic Counsellors or other guest resource persons are also organised in regular intervals for acquainting them with the teaching-learning activities in the ODL system.

3. RECOMMENDED APPROACH

At present, the MLIS learners of the university study their SLMs, listen to online lectures, attend the PCP and SLPs to make their confusion clear and thus continue their study. During all these learning processes, they have to complete their home assignments which are 100 marks question papers for each course of the study. These assignment papers are evaluated by subject experts and returned back to the learners. These help them to assess their study progress, and also carry 20% marks to the term end evaluation. At the end of the academic year the learners have to appear term end examination. The score at term end examination carry 80% of marks. For all eight among nine papers, the learners have to follow this cycle. For Paper nine, which covers the dissertation work, the learners have to appear a workshop conducted by the concerned department to present his/her proposed study of dissertation, and finally for evaluation of this paper, the learners have to go through a two-steps evaluation process, first to appear the viva voce board (20% of the total score) and Second, evaluation of the dissertation Report (80% of the total score).

The MLIS programme is no doubt designed in a systematic way with the help of physical and digital learning supports. There are certain constraints in part of the learners, for which they may deserve flexibility in their place and pace of learning. The course is designed in a way keeping in view such issues. Having been within the designed structure, and keeping in mind the present days' call for ever-changing tools and technologies, the following approaches may be recommended:

- To regularly update the syllabus;
- To compulsorily incorporate Educational Visits/ Excursions in the syllabus of MLIS to provide them exposure to real-life activities at Library and Information Service Centres;
- To provide the learners more access to blended instructional system in technology-enabled synchronous platforms;
- To provide access to Knowledge Resources at Regional Centres and Learner Support Centres, as the university Library is located in centralised position and the learners are distributed in far-flung areas;
- To establishing Library Technical Processing Laboratory at regional Centres so that more practice components may be incorporated in the syllabus
- To incorporate Hands on Practices for the learners in the programme

4. PROGRAMME OBJECTIVE

Master of Library and Information Science (MLIS) programme is a one-year postgraduate professional programme to deliver accredited teaching-learning process to the intended learners to cope them up with the changing trend of information ecosystem by upbuilding their skill and competence to serve as information professionals and also to boost up their confidence in innovative and research skills.

MLIS Programme of NSOU has been designed and developed at par with the proper guideline provided by the concerned authority to fulfil its mission and objectives. The intended objectives to run such a skill-based professional academic programme may be delineated into two stages, the general or overall objectives and the specified objectives, as stated below:

The objectives in general are

- To learn the role of Library and Information Centres in enhancing the quality of education and culture of a country;
- To know the evolution and the current trend of library and information science profession;
- To know the transformation of the Resources, Services and Products of information and knowledge and the opportunities and challenges of library and information science profession;
- To develop required skills and strategies to cope up with the changing landscape, challenges and opportunities in transformed libraries in 21st century;
- To acquire the skill in managing financial, manpower and other resources in library in library and information centres;
- To know the trends and issues of research in library and information science
- To know the issues in marketing library products and services.
- The specific service-oriented objectives are,
 - to develop the skill of Collection Development and Management of Knowledge Resources available in different forms and media;
 - to develop the skill of applications of web 2.0 and web 3.0 in providing enhanced library services;

to develop the skill of in promoting intelligent search services and discovery services to e-resources;

- to develop the skill of enhancing remote access to e-resources from anywhere, anytime;
- to develop the skill of managing research data and content in higher educational institutions;
- to develop the skill of developing knowledge management strategies of an institution through its digital library system;
- to develop the skill of application of artificial intelligence and machine learning in library operations and services;
- to understand the structure and dynamics of research activity in different domain of knowledge to provide enhanced information services to the research activities in those areas.

The Programme objectives have been attuned with the objectives set while designing and developing its course components. Therefore the course objectives need to be delineated, as in the next section.

5. COURSE/PAPER OUTCOME

Title of the Course	Outcome
MLIS-1: Information, Communication Society	After completing this Course/Paper 1 i.e. Information Communication and Society, the learners will be able to know <ul style="list-style-type: none">• the role of information in enhancing societal development;• mode of information generation and information communication among different information users in the society;• relation and transformation between data, information, knowledge and wisdom;• marketing of information services and products.
MLIS-2: Information Sources, Systems and Services	The Paper 2 which is titled as Information Sources, Systems and Services will serve the following outcomes: <ul style="list-style-type: none">• to give an idea of different media of information resources;• to provide an overview of Information Sources. Systems and Services in the disciplines of Humanities, Social Sciences and

Science and Technology And in in different Non-disciplinary Subjects;

- to discuss about the concepts of information sources and services and their variations;
- to study National and International Information Systems and Services.

MLIS-3: The Paper 3 covers Information Processing and Retrieval. The outcomes of this paper /course are

Information

Processing and

Retrieval (Theory)

- to provide an idea of Intellectual Organisation of Information, and the mechanisms and tools used for this purpose;
- to discuss Bibliographic Description and metadata for different media of information sources;
- to give an idea of Types and Characteristics Indexing Languages and different types of Subject Indexing techniques;
- to give an idea of modern trend of information retrieval (IR) and different IR models;
- to provide an overview of evaluation of different IR systems.

MLIS-4:

Information

Institutions,

Products and

Services

The 4th course/ paper of the programme is designed as Information Institutions, Products and Services. The outcomes of this course/paper are

- to provide necessary background information relating to Evolution and Growth of different types of information institutions;
- to describe the objectives and functions of different types of information institutions, such as information centres, Data Centres and Referral Centres, Information Analysis and Consolidation Centres, etc;
- to describe the different information products and services and the tools and techniques involved preparing such services.

MLIS-5:

Management of

Library and

Information

Centres

Library and Information Centres (LIC) are social, non-profit service-oriented institutions. Such institutions and their resources, to provide efficient services, required to be managed in a systematic way. The primary objective of the Paper 5, viz. Management of Library and Information Centres are to give the learners an idea of how to maintain the administration and management of LICs. After completing this Course/Paper 1 i.e. Information Communication and Society, the learners will learn -

- general perspective of management, including management principle;
- overview of System Analysis and Control;
- discussion on Personnel Management;
- discussion on issues of financial Management;

MLIS-6:

Information

Technology

Application

Information Technology: Applications, the course 6 of the MLIS programme is designed having the basic objective to provide the fundamental concept of logical basis for using technology-enabled tools and techniques in modern libraries and information centres. The outcomes are

- to provide the concept and procedure of implementing Library

Automation;

- to describe Database Management System;
- to discuss different Operating software and Application Software for enhancing different aspects of library and information services;
- To describe different issues of Networking.

MLIS-7: Research Methodology

The course component on research methodology in post graduate syllabus is an essential part to grow and direct the innovative interest of the learners in search for new knowledge or for exploration of new explanations of existing concepts or theory in a particular domain. In the MLIS programme it is the 7th paper of the syllabus. The outcomes of this course are

- to introduce the Concept, Need, Purpose of Research and research methodology;
- to discuss the research design and its various parts and activities;
- to discuss the issues in communicating research output and
- to know the objectives and role of different research promotional agencies.

Elective Paper (any one from the following):

MLIS-8E1: Preservation and Conservation of Library Materials

Preservation and conservation of Information and Knowledge resources are very crucial to sustain the cultural heritage of a nation. Paper 8E1 of MLIS Programme has been designed to offer lessons on Preservation and Conservation of Library Materials for those who are interested to select this elective paper. The outcomes of this course are

- to delineate the Concept of Preservation and Conservation of Library Materials
- to discuss causes of damage of library materials
- to illustrate different mechanisms for preservation and conservation of different types of information communication media, ranging from primitive manuscripts to modern digital media.

MLIS-8E2: Academic Library System

The course on Academic Library System (Paper 8E2) may be optionally taken by those learners who are interested to know the objectives, purposes and functionalities of different levels of academic libraries. This course gives the learning outcomes as-

- to define Nature and Characteristics Academic Library and their role in Academic Support System;
- to describe Kinds of Academic Library and their objectives and purposes;
- to discuss Organization and Management of Academic Library Services.

MLIS-8E3: Public Library System

The course on Public Library System (Paper 8E3) may be optionally taken by those learners who are interested to know the objectives, purposes and functionalities of different levels of public libraries. This learning outcomes are

- to define Nature and Characteristics Public Library and their role

	<ul style="list-style-type: none"> in different community in the society; • to describe Kinds of Public Library and their objectives and purposes; • to discuss Organization and Management of PublicLibrary Services; • to introduce the public library system and the policy and legislation in this regard in India, in the UK and in the USA.
MLIS-9: Dissertation	<p>The resulting outcome of conducting a research study and writing the report in this level of post graduate programme are</p> <ul style="list-style-type: none"> • to provide the learners an opportunity to delve into their innovative research interest; • to uncover their authoritative awareness in the subject domain; • to develop writing skill.

6. LEARNING OUTCOME

An academic programme becomes successful and effective when the learning outcome fulfils the objectives of designing such programme. With the said objectives of MLIS programme of NSOU the learning outcome expected are

- to create skilled and competent professionals in the field of library and information science;
- to dedicate their professional career for the development of the subject-domain by catering services in different academic libraries, special libraries, public libraries, research centres, government departments, non-government organisations;
- to develop philosophical value of LIS professionals in providing information service;
- to create a resource pool who will be able to handle and manage the recent developments in the subject domain specially in the ICT environment
- to develop advanced skill in LIS Professionals to Survive in the Changed LIS Environment

7. EXAMINATION SYSTEM:

Continuous evaluation is being conducted in the form of Home Assignments, which are 100 marks question papers for each course of the study. The learners have to solve and submit these papers at their concerned Learner Support Centres. 20% of the score obtained in each paper are to be added to the term end result. At the end of the academic year the learners have to appear term end examination. The score at term end examination carry 80% of marks. Together, each paper carries a score of 100 marks.

8. DETAILED SYLLABUS

8.1. Course structure (Full credit: 900 marks (72 credits))

MLIS-1: Information, Communication Society

MLIS-2: Information Sources, Systems and Services

MLIS-3: Information Processing and Retrieval (Theory)

MLIS-4: Information Institutions, Products and Services

MLIS-5: Management of Library and Information Centres

MLIS-6: Information Technology Application

MLIS-7: Research Methodology

Elective Paper (any one from the following):

MLIS-8E1: Preservation and Conservation of Library Materials

MLIS-8E2: Academic Library System

MLIS-8E3: Public Library System

MLIS-9: Dissertation

8.2 Detailed Syllabus

Paper 1: Information, Communication and Society

Module-1: Information Nature Property and Scope

Unit 1: Comparative study of data, information and knowledge

Unit 2: Data: Definition, Types, Nature, Properties and Scope

Unit 3: Information: Definition, Types, Nature, Properties and Scope

Unit 4: Information Science as a discipline

Module 2: Information Generation and Communication

Unit 5: Evolution of human communication and media

Unit 6: generation of information: models and forms

Unit 7: Information Theory: Shanon and Weaver, Entropy

Unit 8: Communication Process and media

Module 3: Knowledge generation Cycle

Unit 9: Structure and development of knowledge

Unit 10: Knowledge Generation to Utilization

Unit 11: Knowledge and Social survival

Module 4: Information and Society

Unit 12: Social implications of information

Unit 13: Information: an economic resource

Unit14: Information Policies: National and International

Unit 15: Information Society

Paper-2: Information Sources, Systems and Services

Module-1: Multimedia

Unit 1: Physical Media of Information

Unit 2: Print media, Multimedia (Hypermedia) & Hypertext

Unit 3: Non - print media: Microform, Electronic and Optical media

Module -2: Information Sources. Systems and Services (Subject-wise organised)

Unit 4: Humanities

Unit 5: Social Sciences

Unit 6: Science and Technology

Unit 7: Non-disciplinary Subjects

Unit 8: International Organisations

Module -3: Information Sources for Users

Unit 9: Content analysis and its correlation to clientele

Unit 10: Customised Organisation of Information Sources

Unit 11: Aids to Information Sources

Module- 4: Information Services

Unit 12: Information Services: concepts, definitions, need and trends

Unit 13: Evaluation of Alerting Services (CAS, SDI), Bibliographic, Referral,
Document Delivery and Translation Services

Unit -14: Study of National and International Information Systems and Services

Paper 3: Information Processing and Retrieval (Theory)

Module-1: Intellectual Organisation of Information

Unit 1: Intellectual Organisation : an Overview

Unit 2: Classification Systems: General Systems

Unit 3: Classification Systems: Special Systems

Unit 4: Thesaurus: Structure and Functions

Module-2: Bibliographic Description and Subject Indexing

Unit 5: Bibliographic description: an overview

Unit 6: Standards for Bibliographic Record Format

Unit 7: Bibliographic description of non-print media

Unit 8: Metadata

Unit 9: Indexing in theory and practice

Module-3: Indexing Languages and Vocabulary Control

Unit 10: Indexing Languages : Types and Characteristics

Unit 11: Vocabulary Control, Tools of Vocabulary Control

Unit 12: Structure and Construction of an IR Thesaurus

Unit 13: Trends in Automatic Indexing

Module-4: Information Retrieval

Unit 14: IR Models, Search Strategies, Feedback

Unit 15: Evaluation of IR Systems

Unit 16: Information Retrieval Techniques

Unit 17: Trends in IR Models

Paper 4: Information Institutions, Products and Services

Module-1: Information Institutions

Unit 1: Information Institutions: Evolution and Growth

Unit 2: Information Centres: Types and their Organisations

Unit 3: Data Centres and Referral Centres

Unit 4: Information Analysis and Consolidation Centres

Module-2: Information Services

Unit 5: Literature Searches and Bibliographies

Unit 6: Document Delivery Service

Unit 7: Translation Services

Module-3: Information Products

Unit 8: Information Newsletters, House Bulletins, In-house Communications

Unit 9: Trade and Product Bulletins

Unit 10: State-of the-art Report and Trend Reports

Unit 11: Technical Digest

Module-4: Date-base Support Services

Unit 12: Data-bases: types and uses

Unit 13: Data-base Intermediaries such as Searchers, Editors, etc.

Unit 14: On-line Information Systems and Information Networks

Paper-5: Management of Library and Information Centres

Module-1: Management Perspectives

Unit 1: Principles of Management

Unit 2: Management Functions

Unit 3: Managerial Quality and Leadership

Unit 4: Schools of Management Thought

Module-2: System Analysis and Control

Unit 5: Library as a System

Unit 6: Project Management, PERT\CPM

Unit 7: Decision Tables

Unit 8: Performance Evaluation, Standards, MIS

Unit 9: Work Flow and Organisation Routines

Module-3: Personnel Management

Unit 10: Overview of Personnel Management

Unit 11: Manpower Planning

Unit 12: HRD-Quality Improvement Programmes

Unit 13: Performance Appraisal

Unit 14: Total Quality Management

Module-4: Financial Management

Unit 15: Budgeting and Types

Unit 16: Budgetary Control System

Unit 17: Costing Techniques

Unit 18: Cost Effectiveness and Cost Benefit Analysis Out Sourcing

Paper 6: Information Technology: Applications

Module-1: Library Automation

Unit 1: Planning and implementation of Library Automation;

Unit 2: Computer-based Acquisition Control;

Unit 3: Computer-based Cataloguing, Gist & Unicode Standard, ASCII, ISCII;

Unit 4: Computer-based Serials Control;

Unit 5: Retro-Conversion, Bar-coding.

Module-2: Database Management System

Unit 6: Database Models;

Unit 7: Software System, Libsys, TLMS, VTLS, CDS/ISIS, Oracle/Postgras,

SQL/MSSQL;

Unit 8: OPAC Systems;

Unit 9: Database Structure, Organisation and Search.

Module-3: Operating Systems and Programming

Unit 10: Single User Operating System- MS Windows;

Unit 11: Multi-User Operating System- LINUX, UNIX, Windows NT;

Unit 12: Programming Languages: Algorithms;

Unit 13: Flowcharting;

Unit 14: Search and Sorting Algorithm and Structure.

Module-4: Networking

Unit 15: Resource Sharing through Networks;

Unit 16: Network and their classification;

Unit 17: Network Architecture and Services;

Unit 18: Bibliographic information Networks

Paper 7: Research Methodology

Module- 1: Introduction to Research Methodology

Unit 1: Concept, Need, Purpose of Research

Unit 2: Types of Research methods (Scope: Fundamental, Applied, Quantitative and Qualitative)

Unit 3: Steps of Research

Unit 4: Ethical and Social aspects of research (Scope: general theoretical overview)

Module- 2: Research Methods and Design

Unit 5: Research Methods: Quantitative

Unit 6: Research Methods: Qualitative

Unit 7: Problems, Hypothesis/ Research Question, Variables

Unit 8: Literature Review: techniques

Module-3: Data Collection, Analysis and Interpretation

Unit 9: Data Collection: tools and techniques

Unit 10: Presentation of Data: techniques

Unit 11: Data analysis and Interpretation: an overview

Unit 12: Application of statistical techniques

Module 4: Research communication and promotion

Unit 13: Report writing: format and structure; Study of Style manuals, Citation standards, Plagiarism detection

Unit 14: Research communication: process and channels (Scope: Research in progress, etc.)

Unit 15: Research promotion agencies: their roles (Scope: Government Agencies- UGC, UGC-DEB, TIFR, DST, DSIR, ICSSR, ICHR, TISS, ISI, NISCAIR, and others).

Unit 16: Trend in LIS Research

Paper 8E1: Preservation and Conservation of Library Materials

Module-1: Concept of Preservation and Conservation of Library Materials

Unit 1: Need for Preservation

Unit 2: Evolution of Writing Materials

Module-2: Library Materials

Unit 3: Palm Leaves: Their Nature and Preservation

Unit 4: Manuscripts, Books, Periodicals, Newspapers, etc.

Unit 5: Non-Book Materials

Unit 6: Micro-documents

Module-3: Enemies of Library Materials

Unit 7: Physical Agents

Unit 8: Chemical Agents

Unit 9: Biological Agents Unit

10: Digital Preservation

Module-4: Control of Deterioration

Unit 11: Environment Control

Unit 12: Control of Micro-biological Agents

Unit 13: Rehabilitation of Documents

Unit 14: Repair and Restoration

Unit 15: Conservation of Non-book Materials

Module-5: Binding

Unit 16: Different types of Binding for Library Materials

Unit 17: Binding Materials and their varieties

Unit 18: Binding Process

Unit 19: Standards for Binding

Paper 8E2: Academic Library System

Module-1: Academic Library

Unit 1: Nature and Characteristics

Unit 2: Role of Library in Academic Support System

Unit 3: Librarian and Teacher, Coordinated academic Team

Unit 4: Library as Learning Support

Unit 5: Library and Higher Education

Module-2: Kinds of Academic Library

Unit 6: Academic Institutions and their Libraries

Unit 7: Users' Groups and their Needs

Unit 8: Library Services and Users' Support within and beyond the Library

Unit 9: Role of Library in different kinds of Academic Institutions

Unit 10: Integration of Classroom teaching and Library Support

Module-3: Organization and Management of Library Services

Unit 11: Departmentalization and Coordination of Library Services

Unit 12: Library Committee and their Functions, Library Authority

Unit 13: Curriculum Development and Collection Development

Unit 14: Reference Services, Information Services and Referral Services

Unit 15: Users' Services

Module-4: Collection Development

Unit 16: Collection Development: Policies and Procedures

Unit 17: Problems of Collection Development

Unit 18: Library Collection—Books, Serials, etc.

Unit 19: Cooperative Collection Management

Unit 20: Infra-structural Facilities, Library Planning, Library Building, Equipment, etc.

Paper 8E3: Public Library System

Module 1:

Unit 1: Public Library: origin and Growth

Unit 2: Public Library and Society

Unit 3: Agencies in the Promotion and Development of Public Library System Unit 4:

Library Policy and Legislation

Module 2:

Unit 5: Resource Mobilization and Financial resources

Unit 6: Physical and Documentary Resources

Unit 7: Human Resource Development Module 3:

Unit 8: Organizational structure of Public Library System

Unit 9: Public Library Standards

Unit 10: Governance and Performance Evaluation of Public Libraries

Module 4:

Unit 11: Types of Library Services

Unit 12: Application of Information Technology in Public Libraries

Unit 13: Resource Sharing and Networking

Unit 14: Public Library scenario in the United Kingdom and United States of America

Paper 8E3: Public Library System

Module1:

Unit 1: Public Library: origin and Growth

Unit2: Public Library and Society

Unit 3: Agencies in the Promotion and Development of Public Library System Unit 4:

Library Policy and Legislation

Module 2:

Unit 5: Resource Mobilization and Financial resources

Unit 6: Physical and Documentary Resources

Unit 7: Human Resource Development Module 3:

Unit 8: Organizational structure of Public Library System

Unit 9: Public Library Standards

Unit 10: Governance and Performance Evaluation of Public Libraries

Module 4:

Unit 11: Types of Library Services

Unit 12: Application of Information Technology in Public Libraries

Unit 13: Resource Sharing and Networking

Unit14: Public Library scenario in the United Kingdom and United States of America

Paper-9: Dissertation: The Student's Manual for conducting the dissertation work and preparing its report provides a comprehensive list proposed areas of study under the purview of LIS field for preparing the dissertation by the students.

9. PRACTICAL/ FIELD WORK/DISSERTATION GUIDELINES

Paper nine of MLIS programme covers the dissertation. To fulfil this paper the learners have to conduct research study as for their Master Degree level. They require conducting an innovative study in their own area of interest within the purview of LIS domain. A Student's Manual for accomplishing the dissertation study and submitting the Study Report is provided to them. After finalising their area, they need to appear a

workshop organised by the department of LIS to present his/her proposed study of dissertation, and finally for evaluation of this paper, the learners have to go through a two-steps evaluation process, first to appear the Viva Voce Board (20% of the total score) and Second, to submit the Dissertation Report for evaluation (80% of the total score).

10. SOURCES OF E-RESOURCES:

Netaji Subhas Open University provides learning contents physically and digitally, such as Self Learning materials, A/V lectures, Tutorial through Social Networking Platform, etc. as much as possible to support its learners in their learning activity. The e-contents provided by the university are available in the university website (wbnsou.ac.in) and may also be accessed through learner friendly Android based mobile application.

In addition to the resources provided by the university a list for further readings and online courses with their external links are provided below. However, the list is not exhaustive, it may immensely help the learners.

Name of the Portal	Web link / Website
National Digital Library of India (NDLI)	https://ndl.iitkgp.ac.in
e-PG Pathshala	http://epgp.inflibnet.ac.in
Shodhganga	https://shodhganga.inflibnet.ac.in
The Consortium for Educational Communication	http://cec.nic.in/cec/
eGyanKosh	http://egyankosh.ac.in
Library and Information Science: A Guide to Online Resources in The Library of Congress >> Researchers >> Virtual Programs & Services	https://www.loc.gov/rr/program/bib/libsci/fulltext.html

NSOU OER Repository	http://nsouoer.krc.net.in/
Directory of Open Access Books	https://doabooks.org/
OCLC: Worldwide, member-driven library cooperative	www.oclc.org
search engine for PDF files	https://www.pdfdrive.com/
Directory of Open Access Books	https://doabooks.org/
Swayam Central	https://swayam.gov.in/
MIT OpenCourseWare	ocw.mit.edu
Online Courses of Harvard University	https://online-learning.harvard.edu/
Coursera	https://www.coursera.org/
Khan Academy	https://www.khanacademy.org/
edX	https://www.edx.org/ edX
Lumen Learning	https://lumenlearning.com/