3.1 INTRODUCTION

Library and information science education in north east region begins in the late 1960’s. Although there are seven universities in the north east region offering library and information science course, the study is limited to four universities. Library and information science course was first started by Gauhati University as an evening course in the year 1966. It was a Bachelor Degree course leading to BLibSc and later in the year 1979, one year master’s degree course was started leading to MLibSc. The nomenclature of both BLibSc and MLibSc was changed to BLISc and MLISc in 1984 along with renaming of the department as Library and Information Science. From the academic session 2001-2002, two years integrated Master degree programme leading to MLISc was introduced with fully revised syllabus. The second University to start library and information science course was the North Eastern Hill University. It was started in the year 1985 with a two years integrated programme leading to Masters of Library and Information Science. Manipur University was the third university to start the programme in 1986. It was started with a Bachelors Degree of one year duration. Later on the Department introduced one year programme of Masters of Library and Information Science (MLISc) in 2004 with an intake of 6 students. Two Years Integrated MLISc Course was also introduced in the Department from the 2006-2007 academic session. Mizoram University introduced Bachelor of Library and Information Science (BLISc) programme in the year 2002 which was a one-year course. Later on, the university introduced one year Master of Library and Information Science (MLISc) in 2003. From July 2005 the university started two years integrated MLISc course thereby abolishing one year BLISc and one year MLISc. Dibrugarh University, Assam, started one year BLISc programme in the year 2005 and one year MLISc programme in the year 2007. D.S College, Gangtok (Affiliated to Sikkim University) started BLISc course in the year 2008, and Assam University, Silchar is also planning to start 2 years integrated MLISc from 2010 academic session.

The location of seven universities offering Library and Information Science courses in the different states of North East region is shown in a map appended at the end of this chapter.
The following table provides information about the four universities under study.

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name of the University</th>
<th>Year of estd.</th>
<th>Courses on offer</th>
<th>Intake Capacity</th>
<th>No. of Faculty Members</th>
<th>ICT Infra structure</th>
<th>Dept. Library</th>
<th>Learning Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Gauhati University</td>
<td>1966</td>
<td>MLIS, Ph.D</td>
<td>25</td>
<td>Professor-2</td>
<td>Computer with LAN</td>
<td>Yes</td>
<td>Books-3,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Reader-1</td>
<td>Connectivity</td>
<td></td>
<td>Infonet LIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Books-7,000</td>
<td></td>
<td>Journals</td>
</tr>
<tr>
<td>2.</td>
<td>NEHU</td>
<td>1985</td>
<td>MLIS, Ph.D</td>
<td>30</td>
<td>Reader-2</td>
<td>Computer with LAN</td>
<td>Yes</td>
<td>Books-7,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lecturer-3</td>
<td>Connectivity</td>
<td></td>
<td>National-10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Intl-12</td>
<td></td>
<td>Intl-12</td>
</tr>
<tr>
<td>3.</td>
<td>Manipur University</td>
<td>1986</td>
<td>MLIS, Ph.D</td>
<td>21</td>
<td>Reader-2</td>
<td>Computer with LAN</td>
<td>No</td>
<td>Books-2,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lecturer-2</td>
<td>Connectivity</td>
<td></td>
<td>National-10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Intl - 2</td>
<td></td>
<td>Intl - 2</td>
</tr>
<tr>
<td>4.</td>
<td>Mizoram University</td>
<td>2002</td>
<td>MLIS, MPhil, Ph.D</td>
<td>15 05</td>
<td>Professor-1</td>
<td>Computer with LAN</td>
<td>Yes</td>
<td>Books-1,500</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Reader-1 Lecturer-3</td>
<td>Connectivity</td>
<td></td>
<td>National-4</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>Intl-5</td>
<td></td>
<td>Intl-5</td>
</tr>
</tbody>
</table>

3.2 LIS EDUCATION IN GAUHATI UNIVERSITY

3.2.1 INTRODUCTION

The Gauhati University was established in 1948 and the Department of Library Science (then Library Science) was started as evening course in the year 1966 with University Librarian Dr Jogeswar Sarma as Head of the Department. Gauhati University is the first university of this region and the department is also first one in this region. Firstly in
1966/67, one year Bachelor degree programme leading to BLibSc and later in 1979, one year Master degree programme leading to MlibSc were started in the department. The nomenclature of both BLibSc and MlibSc was changed to BLISc and MLISc in 1984 along with renaming of the department as Library and Information Science. Former librarian of the Gauhati University Dr. Jogeswar Sarma was the Head of the Department till his retirement (up to 1983) and then Prof. Alaka Buragohain took over the charge of the Department. From 1984, both BLISc and MLISc courses became full time day courses with revised syllabi. From the academic session 2001-2002, two years integrated Master degree programme leading to MLISc was introduced with fully revised syllabus accommodating new areas in conformity with the UGC-CDC suggestions in LIS. Since 1987 the Ph.D programme is also introduced. Prof. Bhadra Bora, Prof. Narendra Nath Sharma and Prof. N.K. Lahkhar were also Heads of the Department at different times. Prof. R.K. Barman is the present Head of the Department. During its thirty one years of glorious existence, the department has produced good number of LIS professionals and contributed a lot for the development of the LIS profession particularly in the North Eastern India.

3.2.2 COURSES ON OFFER

BLISc (earlier BLibSc) and MLISc (earlier MLibSc) both with one year duration were continuing since 2000/01. From the year 2001/02 the department is conducting two years integrated Master of Library and Information Science (MLISc) with four semesters. The department is also having research programme in LIS leading to Doctor of Philosophy (Ph.D). The department is planning to introduce Master of Philosophy (MPhil) course in LIS from the next academic year.

Master of Library and Information Science (MLISc) Course

Students are admitted in to the MLISc course on the basis of their past academic career or from HSLCE onwards plus performance in the admission test conducted by the department. The admission test consists of objective and subjective type questions of degree standard and also the viva voce.
The MLISc course is a two years integrated course with 4 semesters and 25 intake capacity. Each semester is having four papers of 100 marks each. Each paper is evaluated on the basis of internal assessment and final examination with 20 and 80 marks respectively. Internal Assessments are based on terminal examination, seminar/group discussions, assignments, computer practical and library visit report etc. During the course, students get practical experiences regarding the library management, use and application of ICT, use of library software packages in the Gauhati University library, other college and special libraries. They are also required to submit report on job diary of the activities and experiences undertake and gained from the selected library. The students are also required to prepare an annotated subject bibliography on different topics of interest. In their fourth semester, students have to prepare a dissertation on a specific area in LIS making an in depth study on that particular topic. The syllabus of the course is revised regularly and in the year 2007-2008 new syllabus is introduced incorporating sufficient components of recent developments in LIS.

3.2.3 OBJECTIVES

The main objectives of the course are:

- To acquaint students with the principles of modern management of Library and Information Centres.

- To make them aware about the growth and development of universe of knowledge and its organization in different fields.

- To provide training in methods and techniques of research and their application to the problems in Library and Information Science and preparing one for further research.

- To acquaint students with the theory and practices of Information Technology in information collection, processing, storage and retrieval.

- To acquaint on the principles, methods and techniques of organization and management of modern Library and Information centres.
Table 3.2.2 Core Papers, Electives and Marks Allotted

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td></td>
<td>Library &amp; Society</td>
<td>20+80=100</td>
</tr>
<tr>
<td>1.2</td>
<td></td>
<td>Organization of Knowledge (Theory)</td>
<td>20+80=100</td>
</tr>
<tr>
<td>1.3</td>
<td></td>
<td>Reference &amp; Information Service and Sources</td>
<td>20+80=100</td>
</tr>
<tr>
<td>1.4</td>
<td></td>
<td>Organization of Knowledge (Practice)</td>
<td>20+80=100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td></td>
<td>Library Management</td>
<td>20+80=100</td>
</tr>
<tr>
<td>2.2</td>
<td></td>
<td>Introduction to Computers</td>
<td>20+80=100</td>
</tr>
<tr>
<td>2.3</td>
<td></td>
<td>Information Retrieval Techniques</td>
<td>20+80=100</td>
</tr>
<tr>
<td>2.4</td>
<td></td>
<td>A. Organization of Knowledge</td>
<td>60+40=100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Bibliographical Project and Viva Voce</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td></td>
<td>Information and communication</td>
<td>20+80=100</td>
</tr>
<tr>
<td>3.2</td>
<td></td>
<td>Research Methodology</td>
<td>20+80=100</td>
</tr>
<tr>
<td>3.3</td>
<td></td>
<td>Information Systems and Programmes</td>
<td>20+80=100</td>
</tr>
<tr>
<td>3.4</td>
<td></td>
<td>A. Different Library Systems</td>
<td>60+40=100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B. Job Diary and Library Visit report</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fourth Semester</th>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td></td>
<td>A. System Analysis</td>
<td>20+80=100</td>
</tr>
<tr>
<td>4.2</td>
<td></td>
<td>Library automation and Networking</td>
<td>20+80=100</td>
</tr>
<tr>
<td>4.3</td>
<td></td>
<td>Library Software Packages</td>
<td>60+40=100</td>
</tr>
<tr>
<td>4.4</td>
<td></td>
<td>Dissertation Work</td>
<td>20+80=100</td>
</tr>
</tbody>
</table>

The complete curriculum and syllabus is provided in Appendix 1.

**Doctor of Philosophy (Ph.D)**

The department is offering Ph.D in LIS since 1989. The rules and regulations for eligibility, admission, registration, and submission of the thesis have been laid down by the University. Till today 16 scholars have been awarded Ph.D degree from the department under the guidance of Prof. Alaka Buragohain, Prof. Narendra Nath Sharma, Prof. N.K. Lahkhar and Dr. Rajani Kanta Barman. It is worth mentioning that Prof. Buragohain had obtained her Ph.D from this department independently.
3.2.4 ICT INFRASTRUCTURE

The department has a computer laboratory with internet connectivity. The department is fully utilizing the internet connectivity with broadband extended by the university in its computer laboratory. Besides normal computer practical like word processing using MS Office, internet browsing, etc, the computer laboratory is used for practice for the CDS/ISIS and SOUL library package. The open source software: GSDL and DSpace are also being practiced by the students, research scholars and faculties.

3.2.5 DEPARTMENT LIBRARY

The departmental library has a good collection of documents for the students, research scholars and faculties. It contains the library classification schedule like the DDC, CC, and the UDC and also the Sears’ List of Subject Headings. Recently, good numbers of books on various areas of LIS are procured in the departmental library.

3.2.6 LEARNING RESOURCES

The University Central Library i.e. the KKH Library has a good collection of LIS books and journals and students, researchers and faculties have the access to these resources and use extensively. The central library has a total collection of around 3,000 books in library and information science.

The department is trying its best to march along with the development of LIS discipline and it is successful also to a large extent. The standard of activities of the department is teaching and research in LIS. The department is always trying to provide the students both traditional and the modern approaches with regard to LIS. The LIS itself is fast growing during recent times and it is the responsibility of library schools to train new generation in order to face the challenges and the department of Library and Information Science, Gauhati University is accepting the challenges in the right perspectives and prepare professionals applying various teaching methods including ICT in its academic programmes as well as in examination process. At regular intervals syllabus is revised incorporating new developments in its PG programme. Researchers have conducted and are being conduct on the topic having recent values with social and professional impact. Of
course, the department is facing some acute problems like insufficient space, non-availability of funds for changing over to latest editions of practical tools like DDC, UDC, Sears List of Subject Headings, etc. In spite of all these, the department will continue to grow and play major role in developing LIS in days to come.

3.3 LIS EDUCATION IN NORTH EASTERN HILL UNIVERSITY (NEHU)

3.3.1 INTRODUCTION

The Department of Library and Information Sciences was established in 1985 with a new approach to Library and Information Science education in the country. The Department introduced for the first time a two-year integrated programme leading to Master's degree in Library and Information Sciences in the country. The same pattern of education has now been recommended by the UGC under Model Curriculum in Library & Information Science in 2002. Since 1986 nearly 350 students have already got MLISc degree from the Department and seven students have been awarded Ph.D. Some of the students who have passed out are working in many senior positions in the university libraries, college libraries, state libraries R&D, lecturers in the University, etc. Besides, currently there are 15 students registered for Ph.D..

3.3.2 COURSES ON OFFER

The department is offering the following courses in library and information science

**MLISc (Masters in Library and Information Science) – 2 Years Integrated**

The Master of Library and Information Science course was started in the year 2002 with an intake capacity of 30 students. The Department has been regularly revising and updating the syllabus keeping with the rapid developments of information technology (IT) and its crucial role in the library and information profession. The last revision of the syllabus was made in 2003.
3.3.3 OBJECTIVES

The main objectives of the course are

- To give the students an understanding of the basic principles of fundamental laws of library science and to enable him/her to understand and appreciate the functions, purposes and services of Libraries and Information Organizations in this fast changing world of ‘Information Age’.

- To train the students in the techniques of Information Management and equip them with the latest developments in Information Technology (IT) and its applications in libraries and information centres.

- To acquaint the students with the organizations and development of the Universe of Knowledge and research methods.

<table>
<thead>
<tr>
<th>Table 3.3.2 Core Papers, Electives and Marks Allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Semester</strong></td>
</tr>
<tr>
<td><strong>Course</strong></td>
</tr>
<tr>
<td>LIS 101</td>
</tr>
<tr>
<td>LIS 102</td>
</tr>
<tr>
<td>LIS 103</td>
</tr>
<tr>
<td>LIS 104</td>
</tr>
<tr>
<td>LIS 105</td>
</tr>
<tr>
<td><strong>Second Semester</strong></td>
</tr>
<tr>
<td>LIS 201</td>
</tr>
<tr>
<td>LIS 202</td>
</tr>
<tr>
<td>LIS 203</td>
</tr>
<tr>
<td>LIS 204</td>
</tr>
<tr>
<td>LIS 205</td>
</tr>
<tr>
<td><strong>Third Semester</strong></td>
</tr>
<tr>
<td>LIS 301</td>
</tr>
<tr>
<td>LIS 302</td>
</tr>
<tr>
<td>LIS 303</td>
</tr>
<tr>
<td>LIS 304</td>
</tr>
</tbody>
</table>
### Fourth Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIS 401</td>
<td>Management of Library &amp; Information Systems</td>
<td>25+75=100</td>
</tr>
<tr>
<td>LIS 402</td>
<td>Communication Technology and Digital Libraries</td>
<td>25+75=100</td>
</tr>
<tr>
<td>LIS 403</td>
<td>Dissertation</td>
<td>25+75=100</td>
</tr>
<tr>
<td>LIS 404</td>
<td>Optional Paper (Any one from the following)</td>
<td>25+75=100</td>
</tr>
<tr>
<td></td>
<td>A. Agricultural Information System and Services</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B. Collection Development</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. Knowledge Development</td>
<td></td>
</tr>
</tbody>
</table>

The complete curriculum and syllabus is provided in Appendix-2.

### Ph.D

The Ph.D course was started from the year 1990. Till date there are 14 Ph.D awarded from the department. There are 9 numbers of candidates who have registered for Ph.D and the work is in progress.

#### 3.3.4 ICT INFRASTRUCTURE

The Department has a well equipped computer laboratory with internet facilities catering to the need of the students.

#### 3.3.5 DEPARTMENT LIBRARY

The departmental library has a collection of dissertations and job diaries. Other learning resources are not procured in the department library.

#### 3.3.6 LEARNING RESOURCES

The University Library is being used as a laboratory for the students for practical training under the guidance of faculty members and practising librarians. Thus, the theory and practice are given equal emphasis through this integrated approach. The central library has
a total collection of 7,000 number of books in library and information science and subscribe 10 number of national and 12 numbers of international journals.

3.4 LIS EDUCATION IN MANIPUR UNIVERSITY

3.4.1 INTRODUCTION

Manipur University is located at Canchipur, Imphal, the capital city of Manipur, an Indian state bordering Myanmar. The University campus is spread over an area of 287 areas in the historic Canchipur, the old palace of the kingdom of Manipur. The Langthabal Palace (Konung) was established by Maharaja Gambhir Singh in 1872 (October) A.D. just after the liberation of Manipur from Burmese occupation. Maharaja Gambhir Singh took his last breath in Canchipur. Canchipur is also the birthplace of Dr. Lamabam Kamal, a renowned poet of Manipur.

Manipur University was established on June 5, 1980 under the Manipur University Act 1980 (Manipur Act 8 of 1980), as a teaching cum-affiliating University at Imphal with territorial jurisdiction over the whole of the state of Manipur was converted into a Central University w.e.f.13/10/2005. The Manipur University Act No. 54 of 2005 received the assent of the President on 28/12/2005.

The Department of Library and Information Science was established on 2nd April 1986. Professor M.R. Kumbhar, the then University Librarian of the University was its Head. The Bachelor of Library and Information Science (BLISc) programme was started in the Department in the year 1986 in response to the demand for training human resources in the field particularly for the state of Manipur. The Department introduced one year programme of Masters of Library and Information Science (MLISc) in 2004 with an intake of 6 students. Two Year Integrated MLISc Course was also introduced in the Department from the 2006-2007 academic sessions. In addition, the department provided facilities for carrying out research programme leading to Ph.D in the year 1987 under the guidance of Prof. M.R. Kumbhar. Professionals trained by this department have been manning libraries in Schools, Colleges, Universities and Government Departments of Manipur and other parts of the country and in some foreign countries as well.
3.4.2 COURSES ON OFFER

MLISc – 2years integrated

The department started MLISc programme from the year 2006-2007. The intake capacity of students is 21.

3.4.3 OBJECTIVES

The course has been started with the following aims and objectives:

- To give the students an understanding of the basic principles of fundamental laws of Library and Information Science and to enable him/her to understand and appreciate in this fact changing world of “Information Age”.
- To train students in the techniques of Information Managements and equip them with the latest development in Information Technology (IT) and its application in libraries and information centers.
- To acquaint the students with the organization and development of the Universe of knowledge and research methods.
- To make the students fully aware of various sources of information and dissemination of information in the context of different user groups.

Table 3.4.2 Core Papers, Electives and Marks Allotted.

First Semester

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Library &amp; Society</td>
<td>25+75=100</td>
</tr>
<tr>
<td>102</td>
<td>Organization of Knowledge (Classification Theory)</td>
<td>25+75=100</td>
</tr>
<tr>
<td>103</td>
<td>Organization of Knowledge (Cataloguing Theory)</td>
<td>25+75=100</td>
</tr>
<tr>
<td>104</td>
<td>Information Technology Basics (Theory &amp; Practice)</td>
<td>50+50=100</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Library Management</td>
<td>25+75=100</td>
</tr>
<tr>
<td>202</td>
<td>Knowledge Organisation (Classification Practical)</td>
<td>100</td>
</tr>
<tr>
<td>203</td>
<td>Knowledge Organisation (Cataloguing Practical)</td>
<td>100</td>
</tr>
<tr>
<td>204</td>
<td>Information Service &amp; Sources</td>
<td>25+75=100</td>
</tr>
<tr>
<td>205</td>
<td>A. Journals/Project Work</td>
<td>40</td>
</tr>
<tr>
<td>-----</td>
<td>--------------------------</td>
<td>----</td>
</tr>
<tr>
<td></td>
<td>B. Field Work/Study Tour</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>C. Viva Voce</td>
<td>20</td>
</tr>
</tbody>
</table>

**Third Semester**

<table>
<thead>
<tr>
<th>301</th>
<th>Fundamentals of Information Sciences</th>
<th>25+75=100</th>
</tr>
</thead>
<tbody>
<tr>
<td>302</td>
<td>Information Analysis, Repackaging &amp; Consolidation (Theory &amp; Practice)</td>
<td>50+50=100</td>
</tr>
<tr>
<td>303</td>
<td>Information Retrieval (Theory &amp; Practice)</td>
<td>50+50=100</td>
</tr>
<tr>
<td>304</td>
<td>Research Methodology</td>
<td>25+75=100</td>
</tr>
</tbody>
</table>

**Fourth Semester**

<table>
<thead>
<tr>
<th>401</th>
<th>Information Technology Application (Theory)</th>
<th>25+75=100</th>
</tr>
</thead>
<tbody>
<tr>
<td>402</td>
<td>Information Technology Application (Practice)</td>
<td>20+80=100</td>
</tr>
<tr>
<td>403</td>
<td>Elective Information System (Theory &amp; Practice)</td>
<td>50+50=100</td>
</tr>
<tr>
<td>404</td>
<td>Dissertation/ Project Work</td>
<td>20+80=100</td>
</tr>
</tbody>
</table>

The syllabus offered by the department is provided in Appendix 3.

**Ph.D**

The Ph.D course was started from the year 1987. Till date there are around 13 scholars who have been awarded with Ph.D Degree.

**3.4.4 ICT INFRASTRUCTURE**

The Department has a well equipped Information Technology laboratory developed to meet the requirements of the academic and research programme of the Department.

**3.4.5 DEPARTMENT LIBRARY**

The Department does not have a department library in a separate room but they have a good collection of books which they keep in the office.
3.4.6 LEARNING RESOURCES

Students, Research Scholars and Faculty Members are provided with a good collection of learning resources in the library. The total collection of books in library and information science in the central library is around 2000. 10 national journals and 2 international journals are subscribed by the department.

3.5 LIS EDUCATION IN MIZORAM UNIVERSITY

3.5.1 INTRODUCTION

Soon after Mizoram become an independent state in the year 1987, the state witnessed a number of economic, social and educational activities including libraries in the state. These libraries include development of academic libraries (school, college, and university), public libraries and special libraries as well. To add value and importance of libraries to the literate and new literate citizens of the state, the Government of Mizoram also recognized the value of public library service by enacting Mizoram Public Libraries Act in the year 1993. Due to high literacy percentage and the interest of reading habits of the mass population of the state, the libraries are constantly getting recognition from all walks of life. Therefore scientific organization and effective dissemination of library services have necessitated undertaking library and information education in the state.

Mizoram University introduced Bachelor of Library and Information Science (BLIS) in the year 2002 which was a one-year course. In the year 2003, Master of Library and Information Science (MLISc) of one year duration was introduced. From July 2005 department switched over to two years integrated MLISc. The Department also announced Ph. D course w.e.f. July 2005.
3.5.2 COURSES ON OFFER

MLIS (2 Yrs Integrated)

The department introduced MLIS two years integrated in the year 2005 with an intake capacity of fifteen students. The core papers and marks allotted for each paper is given in the following table.

3.5.3 OBJECTIVES

The objectives of library and information science course have been described as under –

- To provide students an understanding of the basic principles and fundamental laws of library and information science and to enable them to understand and appreciate the functions and purposes of the libraries in the changing social and academic set-up of north eastern India.
- To train the students in the techniques of modern methods in librarianship and management of libraries.
- To acquaint the students with the structure and development of the Universe of knowledge and research methods.
- To make the students proficient in advanced techniques of classification, cataloguing and documentation, and
- To develop specialized knowledge and skills in respect of organization and management of different kinds of libraries and reading materials.

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Foundations of Library &amp; Information Science</td>
<td>75+25=100</td>
</tr>
<tr>
<td>102</td>
<td>Organisation of Knowledge</td>
<td>75+25=100</td>
</tr>
<tr>
<td>103</td>
<td>Classification Practical</td>
<td>75+25=100</td>
</tr>
<tr>
<td>104</td>
<td>Cataloguing Practical</td>
<td>75+25=100</td>
</tr>
</tbody>
</table>
Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Management of Library &amp; Information Centers</td>
<td>75+25=100</td>
</tr>
<tr>
<td>202</td>
<td>A. Information Sources and Services (Theory)</td>
<td>50+15 35</td>
</tr>
<tr>
<td></td>
<td>B. Information Sources &amp; Services (Practical)</td>
<td></td>
</tr>
<tr>
<td>203</td>
<td>Introduction to Information Technology</td>
<td>75+25=100</td>
</tr>
<tr>
<td>204</td>
<td>IT Practical and Job Diary</td>
<td>65+35=100</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Information Processing &amp; Retrieval</td>
<td>75+25=100</td>
</tr>
<tr>
<td>302</td>
<td>Information Technology Applications</td>
<td>75+25=100</td>
</tr>
<tr>
<td>303</td>
<td>Information Technology Applications (Practical)</td>
<td>75+25=100</td>
</tr>
<tr>
<td>304</td>
<td>A. Information Analysis, Repackaging &amp; Consolidation</td>
<td>50+15 35</td>
</tr>
<tr>
<td></td>
<td>B. Tour Diary and Viva-Voce</td>
<td></td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>401</td>
<td>Information Systems and Networks</td>
<td>75+25=100</td>
</tr>
<tr>
<td>402</td>
<td>Electives (Any one)</td>
<td>75+25=100</td>
</tr>
<tr>
<td></td>
<td>A. Preservation and Conservation of Library Materials</td>
<td></td>
</tr>
<tr>
<td></td>
<td>B. Agriculture Information Systems and Services</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C. Community Information</td>
<td></td>
</tr>
<tr>
<td>403</td>
<td>Research Methodology</td>
<td>75+25=100</td>
</tr>
<tr>
<td>404</td>
<td>Project/Dissertation and Viva-Voce</td>
<td>100</td>
</tr>
</tbody>
</table>

The curriculum and syllabus is given in Appendix 4

M.Phil

The department introduced M.Phil programme in Library and Information Science from the year 2007 with an intake capacity of 5 students. The course comprises three semesters leading to Master of Philosophy in Library and Information Science (M.Phil) with the following objectives.

- To provide the students an understanding and strong theoretical, practical and innovative base on emerging areas of Library and Information Science.
- To acquaint and expose the students to different methods, techniques associated with scientific management of Libraries and Information Centers
• To provide an in-depth exposure to the latest trends and developments of ICT and its application in LICs with special emphasis on Library Automation, Networking and Digitization.
• To appraise students the various research methods and tools essential for data collection, analysis and interpretation.

It is worth mentioning that Mizoram University is the only university in the north east region to offer M.Phil (LIS) as on date.

Ph.D

The department introduced Ph.D in library and information science since July 2005. The University had laid down procedures of admission, eligibility, registration and submission of Thesis. Presently 2(two) candidates have completed been awarded with Ph.D Degree under the guidance of Prof. Pravakar Rath and 11(eleven) candidates have been registered and 6 (six) candidates are in the process of registration.

3.5.4 ICT INFRASTRUCTURE

The department established a state-of-the-art Information Processing Laboratory with 11 computers including server computer which allows students of two semesters to undertake their Information Technology Practical. Information technology practical facilitates students to develop the professional competencies in the changing environment. The different components of IT practical include:

• Creation and maintenance of databases by CDS/ISIS and others.
• Hands on experience on Library Software Packages.
• CD-ROM, Online Searching.
• Internet Searching.

The Information Processing laboratory is well equipped with Internet broadband connectivity to conduct practical sessions related to Internet.
3.5.5 DEPARTMENT LIBRARY

The department established a library for its faculty members, students and research scholar in the year 2005. The library is well equipped with classification schedules (CC, DDC, UDC) and cataloguing codes, reference material, project reports, job diary and tour diary reports. Besides the library is also in the process of procuring some source reference material which are useful for the users.

3.5.6 LEARNING RESOURCES

Students, researchers and faculty members are provided with good learning resources. The Central Library has a total collection of around 1000 books including journals and reference material in library and information science. Presently, 4 national and 5 international journals in library and information science are subscribed by the central library.

3.6 DIBRUGARH UNIVERSITY

3.6.1 INTRODUCTION

The Centre for Library and Information Science Studies started BLISc in the year 2005 and MLISc in the year 2007. Both BLISc and MLISc are of one year duration. They are conducted in the Centre for Library and Information Science Studies (CLISS) attached to Dibrugarh University.

3.6.2 COURSES ON OFFER

Bachelor of Library and Information Science (BLISc)

The BLISc course is a one year course. Examination is held annually. 20% Internal Assessment and the rest 80% marks for annual examination
### Table 3.6.2(A) Core Papers, Electives and Marks Allotted for BLISc

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper-I</td>
<td>Library and Society</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper-II</td>
<td>Organization of Knowledge (Theory)</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper-III</td>
<td>Organization of Knowledge (Practical)</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper-IV</td>
<td>Reference and Information Sources and Services</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper-V</td>
<td>Library Management</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper-VI</td>
<td>Introduction to Information Technology</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper-VII</td>
<td>Project Work (Including Viva Voce)</td>
<td>40+10=50</td>
</tr>
<tr>
<td>Paper-VIII</td>
<td>Computer Practice</td>
<td>40+10=50</td>
</tr>
</tbody>
</table>

### Master of Library and Information Science (MLISc)

The MLISc course is also a one year course. Two semester systems are held for the session. Examination is held annually. 20% Internal Assessment and the rest 80% marks for annual examination.

### Table 3.6.2(B) Core Papers, Electives and Marks Allotted for MLISc

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper 05</td>
<td>Management of Library &amp; Inf. Systems and Services</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper 06</td>
<td>(A)Preservation and conservation of Library Materials</td>
<td>40+10=50</td>
</tr>
<tr>
<td>Paper 06</td>
<td>(B)Computer Practice</td>
<td>40+10=50</td>
</tr>
<tr>
<td>Paper 07</td>
<td>Research Methodology and Technical Writing</td>
<td>80+20=100</td>
</tr>
<tr>
<td>Paper 08</td>
<td>Dissertation and Viva Voce</td>
<td>80+20=100</td>
</tr>
</tbody>
</table>
3.7 D.S COLLEGE, GANGTOK (AFFILIATED TO SIKKIM UNIVERSITY)

D.S. College, Gangtok, affiliated to Sikkim University which is a Central University started Bachelor of Library and Information Science (BLISc) in the year 2008. It was a one year Post Graduate Course. The course structure along with marks allotted to each paper is given in the following table.

**Table 3.7 Core Papers, Electives and Marks allotted**

**Semester –I**

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper I</td>
<td>Information Knowledge and Society</td>
<td>100</td>
</tr>
<tr>
<td>Paper II</td>
<td>Information Resources and Services</td>
<td>100</td>
</tr>
<tr>
<td>Paper III</td>
<td>Basics of Knowledge Organization (Theory)</td>
<td>50</td>
</tr>
<tr>
<td>Paper IV</td>
<td>Basics of Knowledge Organization (Practice)</td>
<td>50</td>
</tr>
<tr>
<td>Paper V</td>
<td>Basics of Information Technology Applications (Theory)</td>
<td>50</td>
</tr>
<tr>
<td>Paper VI</td>
<td>Basics of Information Technology Applications (Practice)</td>
<td>50</td>
</tr>
<tr>
<td>Paper VII</td>
<td>Library and Information Centre Management</td>
<td>100</td>
</tr>
</tbody>
</table>

**Semester II**

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper VIII</td>
<td>Knowledge Organization and Information Processing (Theory)</td>
<td>50</td>
</tr>
<tr>
<td>Paper IX</td>
<td>Knowledge Organization and Information Processing (Practice)</td>
<td>50</td>
</tr>
<tr>
<td>Paper X</td>
<td>Elements of Statistics and Information Metrics</td>
<td>100</td>
</tr>
<tr>
<td>Paper XI</td>
<td>Information Technology Applications (Theory)</td>
<td>50</td>
</tr>
<tr>
<td>Paper XII</td>
<td>Information Technology Applications (Practice)</td>
<td>50</td>
</tr>
<tr>
<td>Paper XIII</td>
<td>Basics of Research Methods</td>
<td>100</td>
</tr>
<tr>
<td>Paper XIV</td>
<td>Library and Information Practical Records</td>
<td>100</td>
</tr>
</tbody>
</table>

3.8 ASSAM UNIVERSITY, SILCHAR

Assam University being a Central University started the department of library and information science in the year 2009. Presently, the department has one Associate Professor and two Assistant Professors. The department is contemplating to start two years integrated Masters Degree in Library and Information Science from 2010 academic session. The curriculum and syllabus for the said course is under preparation.

This chapter provided an overview of LIS education in the seven universities of North East Region with a special emphasis on the four universities under study. The following chapter entitled “Professional Competencies Building in the Changing Information Scenario”, has focused on the multi skills required for library and information professionals in the changing information and communication scenario.
Map 3.1: Location of Seven Universities in North East Region

1. Gauhati University, Gauhati (1966)
2. NEHU, Shillong (1985)
<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Internal Assessment /Practice</th>
<th>Examinations</th>
<th>Duration</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Library &amp; Society</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td>1.2</td>
<td>Organisation of Knowledge (Theory)</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>A.Classification</td>
<td>A=10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B.Cataloguing</td>
<td>B=10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>Reference &amp; Information Services and Sources</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>A.Reference Services</td>
<td>A=10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B.Reference Sources</td>
<td>B=10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>Organization of Knowledge (Practice)</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>A.Classification</td>
<td>A=10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B.Cataloguing</td>
<td>B=10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total marks for First Semester  400

Second Semester

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Internal Assessment /Practice</th>
<th>Examinations</th>
<th>Duration of Examinations</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Library Management</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td>2.2</td>
<td>Introduction to Computers</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>A.Theory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B.Practice</td>
<td>B=20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.3</td>
<td>Information Retrieval Techniques</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td>2.4</td>
<td>A.Organization of Knowledge</td>
<td>A=10</td>
<td>40</td>
<td>2Hrs</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>B. Bibliographical Project &amp; Viva Voce</td>
<td>B=50</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Marks for Second Semester  400
### Third Semester

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Internal Assessment /Practice</th>
<th>Examination Marks</th>
<th>Duration of Examinations</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Information and Communication</td>
<td>20</td>
<td>80</td>
<td>3Hrs</td>
<td>100</td>
</tr>
<tr>
<td>3.2</td>
<td>Research Methodology</td>
<td>20</td>
<td>80</td>
<td>2Hrs</td>
<td>100</td>
</tr>
<tr>
<td>3.3</td>
<td>Information Systems and Programmes</td>
<td>20</td>
<td>80</td>
<td>2Hrs</td>
<td>100</td>
</tr>
</tbody>
</table>
| 3.4   | A. Different Library Systems (Anyone)  
  i. Public Library  
  ii. Academic Library  
  iii. Special Library  
  B. Job Diary & Library Visit Report | 60 A=10 B=50                | 75                | 3Hrs                     | 100         |

Total marks for Third Semester 400

### Fourth Semester

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Internal Assessment /Practice</th>
<th>Examination Marks</th>
<th>Duration of Examinations</th>
<th>Total Marks</th>
</tr>
</thead>
</table>
| 4.1   | A. System Analysis  
  B. Management of Information Systems | 20 A=10 B=10                | 80                | 3Hrs                     | 100         |
| 4.2   | Library Automation and Networking  | 20                           | 80                | --                       | 100         |
| 4.3   | Library Software Packages  
  A. Theory  
  B. Practice | 60 A=10 B=50                | 40                | 2Hrs                     | 100         |
| 4.4   | Dissertation Work                  | 20 (Viva)                    | 80                | --                       | 100         |

Total marks for Fourth Semester 400

Total marks for the MLISc Course 400+400+400+400=1600

Paper 1.1: Library and Society

Unit 1: Library: Definition, Objectives, Types and Services
<table>
<thead>
<tr>
<th>Unit 2</th>
<th>Library as a social institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 3</td>
<td>Role of libraries in changing environment</td>
</tr>
<tr>
<td>Unit 4</td>
<td>Five laws of library science</td>
</tr>
<tr>
<td>Unit 5</td>
<td>Librarianship as a profession</td>
</tr>
<tr>
<td>Unit 6</td>
<td>History of library development in India with special reference to NE India and Assam</td>
</tr>
<tr>
<td>Unit 7</td>
<td>Library legislation</td>
</tr>
<tr>
<td>Unit 8</td>
<td>Library cooperation</td>
</tr>
<tr>
<td>Unit 9</td>
<td>National and international organizations: national – ILA, IASLIC, RRRLF International – LA, IFLA, FID and UNESCO: Objectives, Functions, activities of each organization.</td>
</tr>
</tbody>
</table>

**Paper 1.2 : Organization of Knowledge (Theory)**

<table>
<thead>
<tr>
<th>Unit 1</th>
<th>Library Classification: Definition, need and purpose.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 2</td>
<td>Formation, Structure and Development of subjects.</td>
</tr>
<tr>
<td>Unit 3</td>
<td>Devices in classification.</td>
</tr>
<tr>
<td>Unit 4</td>
<td>Special Isolates and Common Isolates</td>
</tr>
<tr>
<td>Unit 5</td>
<td>Schemes of Classification</td>
</tr>
<tr>
<td>Unit 6</td>
<td>Notation: Definition, types, structures, quality and function.</td>
</tr>
<tr>
<td>Unit 7</td>
<td>Library Catalogues: Needs, objectives and functions.</td>
</tr>
</tbody>
</table>
Unit 8    Types of library catalogues

Unit 9    Subject Headings: Tools and techniques.

Unit 10   Cataloguing Codes

**Paper 1.3 : Reference and Information Services and Sources**

Unit 1    Reference service: Definition, need and scope. Types of reference service.

Unit 2    Information service: Definition, need and scope: Reference service Vs Information service

Unit 3    Kinds of reference and information sources; Evaluation of Reference Sources.

Unit 4    Reference Sources: Dictionary, Encyclopedia, Almanacs, Year Books, Directories, Hand books, Manuals, etc.

Unit 5    Bibliography: Meaning, Scope, Functions; Types of bibliography; Bibliographic Control.

Unit 6    Abstracting and Indexing Services: Meaning, Use, Types; Citation Indexing.

**Paper 1.4: Organization of Knowledge (Practice)**

**A. Classification**

Unit 1    Classification according to Dewy Decimal Classification

**B. Cataloguing**

Unit 2    Cataloguing according to Anglo American Cataloguing Codes (II) Catalogue of books of Single Authorship, Joint Authorship and Corporate Authorship, Pseudonymous Authorship, etc.
Paper 2.1: Library Management

Unit 1  Management
Unit 2  Planning
Unit 3  Human Resource Development
Unit 4  Library Governments, Library Committee, Library Rules
Unit 5  Collection Development, Library Building and Equipments
Unit 6  Financial Management
Unit 7  Reports and Statistics
Unit 8  Library housekeeping operations and Automation

Paper 2.2: Introduction to Computers

Unit 1  History of Computer
Unit 2  Types of Computers
Unit 3  Components of Computer: Hardware, Software
Unit 4  Operating Systems: MS DOS, Windows, Application Software.
Unit 5  Auxiliary Storage Devices
Unit 6  Word Processing Packages
Unit 7  Information Technology: Concept and Components
Unit 8  Networking: Concept and Types, Internet
Unit 9  Computers in Library and Information Centers: Areas of Automation.

Paper 2.3  Information Retrieval Techniques
Unit 1  Principles and Theories of Subject Indexing

Unit 2  Indexing Techniques: Syntactical Problems. Pre and Post Coordinating Indexing, Chain Indexing, PRECIS, Uniterm, Keyword and Citation Indexing, Automatic Indexing.

Unit 3  Thesauri Design and Development.

Unit 4  Automated Indexing, Machine Translation, Computerized Abstracting, Natural Language Processing.


Unit 6  Evaluation of Retrieval Systems.

Paper 2.4  (A) Organization of Knowledge (Practice)

Unit 1  Classification according to UDC

Unit 2  Cataloguing according to AACR (II) Cataloguing of Serials and Non Book Materials.

Paper 2.4  (B) Project Work and Viva Voce

Students are required to prepare one project on an assigned topic of present relevance; and required to appear in viva voce examination conducted by the department (30+20)

Paper 3.1  Information & Communication

Unit 1  Nature of Information: Definition of Knowledge, Information and Data Nature, Characteristics and Properties of Information; Information Explosion; Information and Social Change; Information Science and linkages with other disciplines.
Unit 2  Information communications; Information cycle: Generation, collection, storage, transmission and dissemination of information; Communication: Definition, Communication theories (Shanon Theory, etc). Scientific Communication; Formal and information channels of communication – invisible colleges, information exchange groups, technological gate keepers, consultants, information brokers.

Unit 3  Economics of information: Information as commodity and resource; Production and distribution of information; Marketing of information; Knowledge Management; Document Management; Concept, Document Management VS Knowledge Management.

Unit 4  Information and Knowledge: Knowledge and Society, Dissemination of Knowledge and Information, Modes of formation, Structures and development of knowledge, Development of Scholarship: Factors and Trends.


Paper 3.2  Research Methodology

Unit 1  Research: Definition, need and purpose, Type-Basic and Applied; Scientific Methods; LIS Research in India.

Unit 2  Research Design: Aims and Objectives; Scope and Limitations, Problem Identification, Formation and Statement of the Problem.

Unit 3  Hypothesis: Definition, meaning, formulation and type, Descriptive, Relational and Explanatory, Null-Hypothesis, verification.

Unit 4  Methods of research: Survey, descriptive, comparative, historical, Experimental, Case study and Delphi Technique.
Unit 5  Methods of data collection: Types of data – Primary and secondary. Methods: Primary data – Questionnaires, interview and observation secondary data – Historical/ recorded.

Unit 6  Sampling Methods and Techniques:


Unit 7  Methods and tools of data analysis: Problem measure, reliability, validity, measure of central tendency, measure of association correlation co-efficient of correlation and chi-square.

Unit 8  Writing research report, structure of report, presentation of finding and data.

Paper 3.3  Information Systems and Programmes

Unit 1  Information organization as a system: Concept, types and characteristics: Components of information systems: Libraries, Documentation centres, Information centres, Data bank, Information analysis centres, Referral centres, Clearing houses, Reprographic and translation centres – their functions and services.

Unit 2  Planning and design of National Information System: INSDOC, DESIDOC, NASSDOC, SENDOC, CORD, NCSI, NISSAT – their structure, functions and services.

Unit 3  Regional Information Systems: ASTINFO, APINESS, SAARC.

Unit 4  Global Information Systems: UNESCO – PGI, INIS, AGRIS, INSPEC, MEDLARS, UNIDOC, ENVIS, ICSU.

Unit 5  Information Products and Services: Concept, Definition, Types with Examples; Products and Services.
Unit 6  Information products: Institutional and commercial; Information products: vendors DIALOG, STM, Derwent, Data Star, U:MI, Silver Platter, BLDSC, ISI.

Paper 3.4  A Different Library System

(Anyone system of the following)

i.  Academic Library System

Unit 1  Role of library in academic institutions

Unit 2  Recent growth and development of University and College Libraries in India.

Unit 3  Library government: Authority, Library Committee, Librarian’s Role, Status and Responsibility.

Unit 4  Library personnel, library finance, library services, library building.

Unit 5  Building Library Collection: Selection, Acquisition and Resource Sharing.

ii.  Public Library System.

Unit 1  Public library system in relation to mass education.

Unit 2  History of public library movement in India, UK and USA.

Unit 3  Library legislation: India and UK, the model Act.

Unit 4  National and State Library system in India and UK

Unit 5  Library personnel, library finance, library services, library building.

Unit 6  Building library collection: Selection, acquisition and resource sharing.

iii.  Special Library System.
Unit 1  Role of research and special library, relationship with the parent institutions.

Unit 2  Types and functioning of special library: Government, Research Industrial and Commercial libraries; Newspaper, Map, Record Libraries, Central Libraries at national and regional levels.

Unit 3  Library government: Authority, library committee, librarian’s role, status and responsibility.

Unit 4  Library personnel, library finance, library services, library building.

Unit 5  Building library collection: Selection, Acquisition and Resource Sharing.

**Paper 3.4 (B) Job Diary and Library Visit Report.**

(i) Student are to prepare job diary by working in the KKH Library or any other library specified by the department to have hands on experiences in every possible unit/section of a library at regular basis.

(ii) They are also required to prepare a report on the various aspects of few selected libraries of a place outside the state preferably of a metropolitan city.

**Paper 4.1(A) System Analysis**

Unit 1  Basic concept, functions of system analysis

Unit 2  Planning and conducting a system study

Unit 3  Packaging, repackaging and marketing of information.

Unit 4  System analysis, evaluation and system study.

Unit 5  System design.

Unit 6  Flow Chart, Data Flow Diagram, Gantt Chart, Pert, CPM.

**Paper 4.1(B) Management of Information System.**
Unit 1  Management: Concept, definition, nature and purpose. Schools of management, planning library and information centres.

Unit 2  Personnel Management: Manpower planning, staffing, job analysis, job description, job evaluation, staff recruitment, selection, training and development, Work relationship: supervision, control leadership, motivation and performance evaluation.


Unit 4  Financial management: resource mobilization, budgeting methods, PPBS and Zero based budgetary control; Total Quality Control: Concept application in LICs

Paper 4.2  Library Automation and Networking.

Unit 1  Library automation: Need, purpose and advantages; Areas of automation – Acquisition, Cataloguing, Access to catalogue (OPAC), Circulation and Serial Control.

Unit 2  Planning for automation procedures, Steps in automation, Hardware and Software selection.

Unit 3  Bibliographic format: Standards for bibliographic records: ISBD, MARC and CCF.

Unit 4  Networking and Networks: Concept, need and advantages, Network topologies – star, ring, hierarchical, complete

Unit 5  Digital library: Concept, use, advantages, design and development; Virtual library: Concept, virtual learning – online learning, interactive technique.

Unit 6  Internet: Concept, features and services

Unit 7  Library networking: OCLC, BLAISE, JANET, INFLIBNET, DELNET.
Paper 4.3  Library Software Packages

(A)Unit 1  Software in libraries: features, components and applications

Unit 2  CDS/ISIS, LIBSYS, SOUL, Sanjay, SLIM, OASIS

(B)  Practice any two of the above.

Paper 4.4  Dissertation Work

Students are to prepare one dissertation on an assigned topic of present relevance to be submitted during the 4th Semester.
# DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

**NEHU**

**CURRICULUM & SYLLABUS**

## First Semester

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Internal Assessment Marks</th>
<th>Examination Marks</th>
<th>Duration of Examinations</th>
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<tr>
<td>102</td>
<td>Organization of Knowledge</td>
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<td>Information Services &amp; Sources</td>
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<td></td>
<td>25</td>
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<td>105</td>
<td>Introduction to Information Technology</td>
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<td>b. Social Sciences</td>
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<td>c. Natural Sciences</td>
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<td></td>
<td>b. Management of Information Services</td>
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<tr>
<td>403</td>
<td>Computer Application in Library and Information Services</td>
<td>25</td>
<td>75</td>
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<tr>
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<td>Project Report/Dissertation on some current problems in Library and Information Science</td>
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First Semester

**Paper 101: FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE**

Unit 1  Nature and Scope of Library and Information Science; Types of Library and Information Systems including Community Information Centres (CICs) and Digital Libraries.

Unit 2  Collection Development; Five Laws of Library Science; Information and National Development.

Unit 3  National and International Information Policies; Library Legislation in India with special reference to North East India; Intellectual Property Rights (IPR).

Unit 4  Activities and Role of Library and Information Professional Organisations – IFLA, FID, ILA, UNESCO, IASLIC, INFLIBNET; Professional Ethics.

**Paper 102: ORGANIZATION OF KNOWLEDGE (THEORY)**

**Classification**

Unit 1  Library Classification: Need, Purpose and Principles. Forms and Types of Catalogue.

Unit 2  Idea Plane: Categorisation of Knowledge, Cannons and Principles and Postulates.

Unit 3  Verbal Plane: Cannons and Principles.
Cataloguing

Unit 1  Library Cataloguing: Need, Purpose and Principles. Forms and Types of Catalogue.

Unit 2  Subject Catalogue: Sears list of Subject Heading, Chain Indexing, Library of Congress Subject Heading (LCSH)

Unit 3  Structure of AACR II/CCC.

Paper 103: ORGANIZATION OF KNOWLEDGE

A. Classification (Practice)

Classification of documents by Dewey Decimal Classification Latest Edition and Colon Classification, Latest Edition in the following graded steps:
1. Classification of documents having “Basic Subjects”
2. Classification of documents having “Compound Subjects”.

B. Cataloguing (Practice)

Practical cataloguing of books according to Anglo – American Cataloguing Rules II – 1988 edition with amendments 1999, 2002, with a Sears List of Subject Headings/LSCH in the following graded steps:
1. Works of personal authorship.
2. Works of shared responsibility.
3. Works of mixed responsibility.
4. Anonymous works.
5. Works of Corporate Authorship.
6. Analysis.
Paper 104: INFORMATION SOURCES AND SERVICES

Unit 1: Definition and scope of Reference and Information Services. Reference Interview. Qualities, Qualifications and Role of Reference Librarian and Information Officer.


Repackaging: Compilation of Current Awareness Lists/ Bibliographies/ Contents Lists/ Press Clippings.

Unit 3: Sources of Information: Types of Reference and Information Sources. Bibliographical Control: National Bibliographies, Subject Bibliographies, Union List, Indexes and Abstracts.

Reference Books: Dictionaries, Statistical Sources, Geographical Sources, Encyclopedias, Year Books, Directories and Reviews.

Web Resources: Subject Gateways.

Unit 4: Environmental Information Sources: Organizations and Institutions.

Paper 105: INTRODUCTION TO INFORMATION TECHNOLOGY

Unit 1 Introduction: Definition, Scope and Objectives.

Basic computer components and computer system concept; input and output devices; Memory and Storage Devices.

Unit 2 Hardware: Motherboard; CPU; RAM; I/O Addressing; Disk – Types and Installations; Partition and Formatting; Power Supply; Video; Sound; Sockets and Connectors.
Unit 3  Operating Systems: Characteristics and Functions; DOS, Windows, Linux, Unix and Windows.

Office Packages: word processor, spreadsheet, presentation tools.

Unit 4  Practical: O/S, Word Processor, Spreadsheet and Presentation Tools.

Second Semester

PAPER 201: DATABASE MANAGEMENT SYSTEM

Unit-1: Introduction: Database System Concept; Database System Architecture; Data Modelling using the Entity Relationship (ER) Model; Enhanced Entity Relationship (EER) & Object Modelling; Record Storage; Primary File Organization and Index Structure for files.

Unit – 2: The Relational Data Model; Relational Constraints; Relational Database Standard; Relational Mapping using Entity Relationship and Enhanced Entity Relationship; Relational Languages.

Unit -3: Object – Oriented Databases Concepts; Object Database Standards, Languages and Design; Object Relational & Extended Database System.

Unit – 4: Functional Dependencies; Normalization for Relational Databases; Relational Database Design; Practical Database Design; Data Warehousing, Data Mining and Metadata; Emerging Database Technologies and Applications.

PAPER 202: ORGANIZATION OF KNOWLEDGE

A Classification

Unit – 1 Notational Plane: Qualities, Types, Canons and Mnemonics.
Unit – 2 Devices: Subject device, chronological device, geographical device, common isolates, super imposition device, and classic device.

Unit – 3 Automated Library Classification.

**B Cataloguing**

Unit – 1 Shared Cataloguing: Principles and Methods. Consortia, OCLC.

Unit – 2 Bibliographical Formats: MARC 21, ISBN, ISSN, CCF, UNICODE.

Unit – 3 Authority Files.

**PAPER 203: ORGANIZATION OF KNOWLEDGE (Practical)**

**A Classification**

Classification of documents by Dewey Decimal Classification Latest Edition and Colon Classification (latest edition) in the following graded steps.

a. Classification of documents requiring use of “common sub-division and other auxiliaries”.

b. Classification of documents having “complex subjects”.

c. Classification of documents having “complexities of mixed nature”.

**B Cataloguing**

Cataloguing of books according to Anglo-American Cataloguing Rules – 1988 edition with amendments in 1999, 2002 with a Sears List of Subject Headings/Library of Congress Subject Headings (LCSH) in the following graded steps:

1. Serial publications.

2. Non – book material: cartographic material, theses and audio visual material etc.

3. Internet & multimedia resources: metadata including other digital material.
(Students are expected to do computerized cataloguing using MARC/ CCF Format)

**PAPER 204: SOFTWARE PACKAGES**

Unit - 1: WINISIS


Unit – 2: Practical: Creation and management of Database in WINISIS.

Unit – 3: SOUL (Software for University Libraries)

Overview, Installation, Backup, Administrative Module, Acquisition Module, Catalogue Module, Circulation Module, Serial Module, OPAC.

Unit – 4: Practical: Using Library Software Package: SOUL

**PAPER 301: LIBRARY SYSTEM ANALYSIS AND DESIGN**

Unit – 1: System Concepts and Information System; System Development Life Cycle; Role of System Analyst.

Unit – 2: Planning and Investigation: Information gathering; Structured analysis tools; Flow Charts, DFD; Feasibility and Cost/Benefit Analysis.

Unit – 3: System Design: Process and Stages; I/O and form design; File Organisation and Database Design.


**PAPER 302: INFORMATION USERS AND THEIR NEEDS.**

Unit 1: Information users: information needs and information seeking behaviour; Categories of users including ethnic groups, information transfer.
Unit 2: Models of information needs and information seeking behaviour with special reference to model: Wilson, Belkin, Davis Ellis, Kulthau and Brenda Dervin.

Unit 3: Methodology and evaluation of user studies: quality paradigms. Data collection methods: questionnaire, interview, observation, case study, citation analysis and interpretation of results.

Unit 4: User education: goals and objectives, methodology, media and techniques.

**PAPER 303: INFORMATION RETRIEVAL**


Laboratory exercises and assignments using web search engines and online systems.

**PAPER 304 RESEARCH METHODOLOGY**

Unit 1: Research Design: Types of research design; Identification of problem; Designing research proposal.
Unit 2: Methods: Historical Method; Scientific Method, Descriptive Method; Survey Method and Case Study.

Data Collection tools and techniques: Questionnaire; Schedule; Interview; Observation, etc.

Unit 3: Bibliometrics: Lotka’s Law, Bradford’s Law, Zipf’s Law, Citation Analysis, Co-citation Coupling, Bibliographic Coupling.

Unit 4: Data Analysis and Interpretation: Descriptive Statistics-Measures of Central Tendency; Mean, Mode, Median; tabulation and Generalisation; Measures of dispersion, variance and covariance; Standard Deviation Graphical presentation of data: Chi Square Test, bar, pie-line graphs, histograms etc.

Statistical Packages – SPSS or Statistica.

PAPER 401: MANAGEMENT OF LIBRARY AND INFORMATION SYSTEM


Unit 2: Planning – Concept, Need and Types; Management by Objectives (MBO); Decision making; Management Information System (MIS); Total Quality Management (TQM).

Unit 3: Human Resource Management – Manpower Planning; Job Analysis, Job Description and Job Evaluation; Recruitment Procedures; Leadership; Motivation; Group Dynamics; Communication; Change process; Organizational Manual; Performance Appraisal; Annual Report.

Unit 4: Budgeting and Marketing – Principles and Types of Budgeting: Line Budgeting, Performance Budgeting, Programme Budgeting, Planning
Performance Budgeting System (PPBS), Zero- Based Budgeting System (ZBBS); Marketing of Information Products and Services; Outsourcing.

**PAPER 402 COMMUNICATION TECHNOLOGY AND DIGITAL LIBRARIES**


Unit 2: Digital Libraries: Definition and Objectives; Image Formats, Audio Format, Storage Media Format; OCR Scanners, Digital Still and Movie Cameras; Image Editing Software and Barcode technology.

Unit 3: Basic Features and Tools of INTERNET: Online Information Services; Connectivity; PSTN, ISDN, Leased Line, digital Subscriber Line, VSAT; Email, Engine; Internet Security; Teleconferencing; Video Conferencing. Fundamentals of Web page and Web Designing.

Unit 4: Practical:
CD ROM/ Database Search
Internet Searching
Formulation of Search Strategies for Search Engines and Databases.

**PAPER 403: DISSERTATION/ PROJECT REPORT**

The students will be asked to write a project/dissertation on the following themes:
1. Literature review of any current topic in library and information science.
2. Conducting case studies and surveys of libraries located in the north east.
3. Designing a database using a library software.
4. Studies related to information retrieval on internet.
5. Any other studies related to library and information science.

PAPER 404 (Optional A):

AGRICULTURAL INFORMATION SYSTEMS AND SERVICES

Unit 1: Introduction and role of agricultural librarianship, Growth and development of agricultural sciences and agricultural librarianship with special reference to India.

Unit 2: Identifying information needs of agricultural scientists, students and other categories of information users in the field of agriculture and allied fields.

Unit 3: Collection development: Principles, policies and procedures. Information sources and services, Important information centres including important national agricultural libraries.

Unit 4: Evaluation of Agricultural Information Systems; Agris, Agricola, CABI, ARIS etc. Tools and Techniques of agricultural information.

PAPER 404 (Optional B):

COLLECTION DEVELOPMENT

Unit 1: Need for collection development, Acquisition policy and principles.

Unit 2: Planning for need based collection development, budgeting and distribution, criteria and methods of selection.

Unit 3: Sources of collection development: printed media, non-printed media and e-resources.

Unit 4: Evaluation of various types of sources, models of collection building.
PAPER 404 (Optional C):

KNOWLEDGE DEVELOPMENT, REPRESENTATION AND MANAGEMENT

Unit 1: Cognitive foundation: Nature, sources and process of Knowledge, Types of Knowledge, Characteristics of Knowledge in general and based on general systems theory.

Unit 2: Models of development of knowledge. Popper, Kuhn, Lakatos, Feyerabend, Price and Ranganathan.

Unit 3: Representation: Knowledge representation systems in Library and Information Science and Artificial Intelligence, Modes of Formation of Subjects.

Unit 4: Knowledge Management: Role of knowledge assets; principles; processes; identifying capturing, selecting, organizing and storing, sharing, applying and creating.
### Scheme of Papers:

#### First Semester

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<tr>
<td>101</td>
<td>Library &amp; Society</td>
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**Total marks for First Semester** 400

#### Second Semester

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**Total Marks for Second Semester** 500
### Third Semester

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<tr>
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<td>3Hrs</td>
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</tr>
<tr>
<td>302</td>
<td>Information Analysis Repackaging &amp; Consolidation Theory and Practice</td>
<td>50</td>
<td>50</td>
<td>2Hrs</td>
<td>100</td>
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<tr>
<td>303</td>
<td>Information Retrieval Theory and Practice</td>
<td>50</td>
<td>50</td>
<td>2Hrs</td>
<td>100</td>
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<tr>
<td>304</td>
<td>Research Methodology</td>
<td>25</td>
<td>75</td>
<td>3Hrs</td>
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</table>

**Total marks for Third Semester**  400

### Fourth Semester

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Internal Assessment/Practice</th>
<th>Examination Marks</th>
<th>Duration of Examinations</th>
<th>Total Marks</th>
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<tbody>
<tr>
<td>401</td>
<td>Information Technology: Application (Theory)</td>
<td>25</td>
<td>75</td>
<td>3Hrs</td>
<td>100</td>
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<tr>
<td>402</td>
<td>Information Technology: Application (Practice)</td>
<td>20 (Viva)</td>
<td>80</td>
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<td>100</td>
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<tr>
<td>403</td>
<td>Elective Information System Theory and Practice</td>
<td>50</td>
<td>50</td>
<td>2Hrs</td>
<td>100</td>
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<tr>
<td>404</td>
<td>Dissertation/Project Work</td>
<td>20(Viva)</td>
<td>80</td>
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</tbody>
</table>

**Total marks for Fourth Semester**  400

**Total marks for the MLISc Course** 400+500+400+400=1700

### Semester – I

**Paper – 101: Library and Society**

**Unit – 1 Concept**

- Modern Concept of Library and Information
- Contemporary Society and its impact-social
- Cultural, Educational and Technological
• Library and Information Services

Unit – 2 Laws Co-operation, Extension & Types
• Laws of Library Science
• Extension Services
• Library Co-operation – India and United Kingdom.
• Types of Libraries – Public, Academic, Special – their characteristics and functions

Unit – 3 Legislation and Acts
• Library Legislation
• Public Libraries Act – Andhra Pradesh, Karnataka, Maharashtra and West Bengal

Unit – 4 Libraries at different levels
• National Library
• State Central Library
• District Central Library and their functions

Unit – 5 Associations and Their Movements

• Library Associations – International and National – FID, IFLA, UNESCO, ILA and ALA
• Library Movement with reference to India, United Kingdom and United States of America

Paper – 102: Knowledge Organization (Library Classification – Theory)

Unit – 1 Library Classification
Its need and purpose, history of classification, structure of development of universe of subjects – Modes and formation of subjects
Unit – 2 General theory of Classification
    Canons and principles and postulates.

Unit – 3 Fundamental categories
    Phase, Facet and Intra- Array relationship, Zone Analysis- Sector.

Unit- 4 Analysis
    Knowledge Classification and Book Classification, Common Sub-division, Book Number, Devices, Enumerative Vs Analytico- Synthetic

Unit – 5 Classification
    Acquaintance with UDC, Comparative study of DDC and CC Schedules.

Paper – 103: Knowledge Organization (Library Cataloguing - Theory)
Unit – 1
    Purpose and functions of Library Cataloguing, Forms of Library Catalogue, Physical forms and Inner forms with reference to the Dictionary Catalogue and Classified.
Unit – 2
Unit – 3
    Subject Heading and Chain Procedure, Co-operative and Centralised Cataloguing.
Unit – 4
    Methods and rules of filing Catalogue cards.
Unit – 5
    Corporate author, Pseudonyms, Periodicals and Comparative study and Classified Catalogue and Dictionary Catalogue.

Paper – 104: Information Tehcnology : Basics
Part – I: (Theory)

Unit – 1 Information Technology

- Definition
- Need
- Scopes and Objectives

Unit – 2 Computer Basic

- (Hardware) / Computers and their basic components: Storage media
- Magnetic and Optical.
- Input and output devices
- Character codes and its representation.

Unit – 3 Computer Architecture – Organisation of Computer

- Hardware components: PC, LAN: Topologies
- Medium, other components.
- Input and output devices.

Unit – 4 Software

- Basic features of MS-DOS, MS Windows, Windows NT and familiarization with other important operating systems.
- Basic data communication systems: Data transmission. Transmission media – twisted pairs Coaxial cables, Optical fibre, Microwave, Satellite.

Unit – 5 Database Management Software Packages (DBMS) and Networking

- Familiarization with Fox Pro, CDS/ISIS, Ms ACCESS, SOUL and Libsys.
- Networking: Local Area Network, Wide Area Network, Intranet and Internet.
• Computer Information Retrieval Systems: Familiarization with library information retrieval systems (Online Public Access Catalogue, OPAC, CD-ROMS)

**Part – II: (Practice)**

**Unit – 1:** Hands on working with MS-DOS Commands and Windows

**Unit – 2:** Designing the following Documents by using MS-Word, Excel and Power Point.

- Drafting Letters
- Issuing Reminders
- Preparation of Records
- Preparation of Accession Register
- Power Point Presentation.

**Unit – 3:** Database creation using CDS-ISIS or SOUL.

**Unit – 4:** Viva-Voce.

**Semester – II**

**Paper – 201: Library Management**

**Unit- 1: Concept**

- Concept of Organisation and Management
- Fundamentals of Library Administration
- Library Rules.

**Unit – 2: Administrative works related to various sections**

- Library administrative works in various sections of various types of libraries
- Library Technical Services
- Charging and discharging – methods
- Book selection, Book acquisition and Book preparation
- Stock verification, binding and book preservation.
Unit – 3: Staff and other administrative procedure
- Personal Management
- Library Committee
- Annual Report

Unit – 4: Finance and Statistics
- Finance and Library Budget
- Library Statistics
- Library Records

Unit – 5: Building, Furniture & Equipments
- Library Building
- Library Furniture
- Library Equipments.

Paper – 202: Classification Practicals

Question paper to be set by the examiners for Classification of the titles by Colon Classification and by Dewey Decimal Classification.

Unit – 1: Classification of Documents (C.C and D.D.C)
- Classification of documents representing simple subject
- Classification of documents having common isolates
- Classification of documents representing compound subject
- Classification of documents representing complex subject

Unit – 2: Assignment of Book Number

(Using at least one standard Book Numbering System)

Note: C.C and D.D.C are supplied for classification and return.

Paper – 203: Cataloguing Practical
Question paper to be set by the examiners for Cataloguing of the books by Classified Catalogue Code and Anglo American Cataloguing Rules II (AACR – II)

Unit – 1: Cataloguing of Documents

(C.C.C and A.A.C.R – 2)
- Cataloguing of simple documents
- Cataloguing of complex documents.
- Periodical publication

Unit – 2: Subject Cataloguing

- Assigning Subject Headings using at least one Standard Subject Headings

Note: Simple books, Composite books, Pseudonymous author, Corporate author, Multi-volumed books, Reports and Simple periodical, Non-book material.

Paper – 204: Information Services and Sources

Unit – 1: Information Sources

Documentary Sources of Information, Print, Non-Print including Electronics Nature and Characteristics Utility and Evaluation of different types of Information Sources, Non Documentary Sources, Sources of Information: Primary, Secondary and Tertiary Information Sources Internet as a source of Information, Study and evaluation of information sources.

Unit – 2: Information Services


Unit – 3: Electronic Sources of Information
Electronic Sources: Nature and Types – CD-ROMs, DVD and Multimedia Sources – Internet Sources and Evaluation.

Unit – 4: Users studies

Information users and their information needs

Unit – 5: Study of information centres

Study of National, International and Commercial Information Centres and their services; Background, their services and products.

Paper – 205: Journals/Project Work and Field Work/Study Tour

Unit – 1: Four journals/Project works are to be maintained

- Knowledge organisation (Classification)
- Knowledge Organisation (Cataloguing)
- Furniture
- Bibliography compilation/Press clipping

Unit – 2: Field work/Study Tour and Viva Voce

- Candidates are required to prepare job diary by working in the University Library or any other library specified by the Department to have hands on experiences in every possible unit/section of a library at regular basis.
- The job diary is to be submitted by each candidate at the end of the semester. The diary is to be evaluated by the External and Internal Examiners.

Semester – III


Unit – 1: Information and Communication

- Information: Characteristics, Nature, Value and Use of Information.
• Conceptual difference between Data, Information and Knowledge.
• Communication of Information, Information generation.
• Communication channels, models and barriers.
• Trends in Scientific Communication.

Unit-2: Information Science.
• Definition, Scope and Objectives.
• Information Science as a discipline and its relationship with other subjects.

Unit – 3: Library, Information and Society
• Genesis and characteristics and implications of Information Society.
• Changing role of Library and Information Centres in Society
• Information Industry-Generators, Provides and Intermediaries.
• Unit – 4: Intellectual Property Act, Right to Information Acts.

Unit – 5: Concept, Document Management Vs Knowledge Management.
• Information as commodity and resources.
• Production and distribution of information.
• Marketing of Information
• Knowledge Management.


Part – 1: Theory

Unit – 1: Abstracting
• Abstracting: Types and guidelines in preparing abstract.

Unit – 2: Repackaging and Consolidation
• Content Analysis
• Repacking, formatting, consolidation.

Unit – 3: Information Products.
• Information Products: Nature
• Concept
• Types
• Design and Development and Marketing.

Unit – 4: Trends in Information Analysis, Repackaging and Consolidation.

Part – 2: Practice

Unit – 1: Assigned Abstracting Practice.

Unit – 2: Designed Content Analysis for Abstracting Practice.

Unit – 3: Designed Content Creation in Electronic Form.

Paper – 303: Information Retrieval

Part – 1: Theory

Unit – 1: Cataloguing & Subject Indexing: Principles and Practices
• Principles of Subject Cataloguing: Assigning Subject Headings Using Library of Congress Subject Headings and Sear’s List of Subject Headings etc.
• Models – Assigned and Derived.
• Pre & Post Coordinate Indexing Systems and Citation Indexing.

Unit – 2: Indexing Languages and Vocabulary Control.
• Indexing Languages: Types and Characteristics
• Vocabulary Control, Tools of Vocabulary Control, Structure and Construction of an IR Thesaurus.
• Trends in Automatic Indexing.

Unit – 3: Information Retrieval.
• Trends in IR Models.
Part – 2: Practice

Unit – 1: Assigned Indexing Practice.

Unit – 2: Derived Indexing Practice.

Unit – 3: Design and Development of IR Thesaurus.

Unit – 4: Search Methods and Formulation of Search Strategy.

Paper – 304: Research Methodology

Unit – 1: Research and Research Design
- Concept, Meaning, Need and process of Research.
- Types of Research: Fundamental and Applied.
- Research and Research Design: Types of Research Design
- Designing Research Proposal.
- Literature Search: Print, Non-Print and Electronic Sources.

Unit – 2: Research Methods.
- Scientific Method.
- Historical Method.
- Descriptive Method.
- Survey and Case Study Method.
- Experimental Method and Delphi Method.

Unit – 3: Data Analysis and Interpretation.
- Collection of Data by Questionnaire, Interview, Observation and Sampling.
- Presentation of Data-tables, Charts and Graphs.
- Interpretation of Data: Frequency Distribution, Measures of Central Tendency, Analysis of Time Series, Correlation Studies, and Analysis of Variance.
- Use of Statistical Packages.

Unit – 4: Bibliometric Studies
- Bibliometric Studies: Meaning, Scope and Parameters.
• Bibliometrics Laws and their Applications.
• Citation Analysis and Obsolescence Studies.
• Trends in Bibliometrics.
• Informetrics, Scientometrics and Webometrics.

Unit – 5: Report Writing.
• Preparation and Writing of Research and Technical Report.
• Current Trends in Research in Library and Information Science.
• Tools for Technical Writing Style Manuals.
• Guidelines for Research Reporting.

Semester – IV

Paper – 402 Information Technology: Applications

Unit – 1: Library Automation
• Planning and Implementation of Library Automation.
• Automation, In-house Operations : Acquisition, Cataloguing, Circulation, Serial Control, OPAC, Library Management.

Unit – 2: Multi Lingual Bibliographic Databases
• Library Automation Software packages: their study and composition.

Unit – 3: Communication Technology
• Fundamentals of Telecommunication Technology: Media, Mode and Components.
• Network Media, UTP, Optical Fibre, Ethernet, Network Interface Card, Hubs, Routers and Modem
• Network Types and topologies, LAN, MAN, WAN
• Bus, Star, Ring, Token Ring etc.
• Local Area Network – Types and Topologies.

Unit – 4: INTERNET Basic Features and Tools
• Network Based Information Service.
• Connectivity: Dialup, Leased Lines, ISDN, Digital Subscriber Lines.
• E-Mail, SMTP, Wireless, Send Mail, POP3 CK
• Protocols – FTP, HTTP
• Web browser, Netscape Navigator, Internet Explorer.
• Web Servers, Web Tools, Search Engines.
• Internet Security.
• Teleconferencing, Tele – fascimile, Teletex, Videotext.

Unit – 5: Digital Libraries.
• Genesis, Definition, Objectives, Scope of Digital Libraries.
• Image Formats, Audio Formation.
• Storage Media formats – 180-9660 DVD
• Software and Hardware for digital libraries, OCR, Image Editing Software.
• Input Capture Devices, Scanners, Digitals and Movie Cameras.
• Data Warehousing, Data Mining and Meta Data.

Paper – 402: Information Technology: Application (Practice)

Unit – 1: Creation and Maintenance of Databases by CDS/ISIS and others.

Unit – 2: Using of Library Software Package.

Unit – 3: CD-ROM, Online Searching

Unit – 4: Internet Searching

Unit – 5: Library and Information Centre Web Page Design and Creation

Paper – 403: Elective Information Systems

An illustrative list of Elective option is as under. It is not suggestive but illustrative
1. Business Information System.
2. Environmental Information System
3. Biotechnology Information Systems
5. Archival, Museum and Archaeological Information Systems
6. Legal Information Systems
7. Agricultural Information Systems
9. Industrial Information Systems

Note: The Electives are offered in Semester 4th MLISc as paper 403 with the following broad structure of contents:-

1. Study of the specialized subject/discipline its Structure and Development.
2. Definition, Terminology, Branches and the Landmarks in the subject/disciplines
4. Database design, creation and development in the area-pertaining to Information Components of the subject, Study of Data Structure, Selection of DBMS and Retrieval Aspects, Content Creation and Development.
5. Information Systems and Networks in the subject/discipline, Study of Information Sources Services INTERNET based Sources and Services.

**Paper – 404: Dissertation / Project Work**

- Dissertation
- Viva-Voce

Each student shall have to submit a dissertation on a Topic related to Library and Information Science under the supervision of a teacher. The supervisor shall decide the topic of the dissertation in consultation with the student. The dissertation shall be evaluated both by the external and internal examination. The Viva-Voce is to be conducted by the External.
# DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
# MIZORAM UNIVERSITY
# CURRICULUM & SYLLABUS

## Scheme of papers

### First Semester:

<table>
<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Marks</th>
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<tbody>
<tr>
<td>101-</td>
<td>Foundations of Library and Information Science</td>
<td>75+25</td>
</tr>
<tr>
<td>102-</td>
<td>Organisation of Knowledge</td>
<td>75+25</td>
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<tr>
<td>103-</td>
<td>Classification Practical</td>
<td>75+25</td>
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<tr>
<td>104-</td>
<td>Cataloguing Practical</td>
<td>75+25</td>
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### Second Semester:

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<tr>
<td>201-</td>
<td>Management of Library and Information Centres</td>
<td>75+25</td>
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<tr>
<td>202-</td>
<td>(A)Information Sources and Services</td>
<td>50+25</td>
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<tr>
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<td>(B)Information Sources and Services (Practical)</td>
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<tr>
<td>203-</td>
<td>Introduction to Information Technology</td>
<td>75+25</td>
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<tr>
<td>204-</td>
<td>IT Practical and Job Diary</td>
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### Third Semester:

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<tr>
<td>301-</td>
<td>Information Processing &amp; Retrieval</td>
<td>75+25</td>
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<tr>
<td>302-</td>
<td>Information Technology Applications</td>
<td>75+25</td>
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<tr>
<td>303-</td>
<td>Information Technology Applications (Practical)</td>
<td>75+25</td>
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<tr>
<td>304-</td>
<td>(A)Information Analysis, Repackaging &amp; Consolidation</td>
<td>50+15</td>
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<td>(B) Tour Diary and Viva-Voce</td>
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Fourth Semester:

401- Information Systems and Networks 75+25
402- Electives (Anyone) 75+25
  (A) Preservation and Conservation of Library Materials
  (B) Agriculture Information Systems and Services
  (C) Community Information
403- Research Methodology 75+25
404- Project/Dissertation and Viva-Voce 100

FIRST SEMESTER

Paper- 101: Foundations of Library and Information Science

Unit – 1: Libraries : Modern Concepts, Role and Types
  Library as a Social Institution
  Different Types of Libraries : Their distinguishing features and functions
  Five Laws of Library Science and their Implications
  Library and Society : Their interaction in the changing context

Unit – 2: Library Development
  Growth and Development of Libraries in India, UK and USA
  Library Legislation : Needs, Features
  Library Legislation in India with special reference to Mizoram
  Press and Registration Act, delivery of Books Act and Copy Right Act

Unit – 3: Professional Associations and Organizations
  Librarianship as a Profession
  Professional Ethics
  Professional Associations and their Role
  Activities of IFLA, ASLIB, ILA, IASLIC & Mizoram Library Association
  Information Organization : Their Role
  Activities of UNESCO, NISCAIR, DESIDOC, NASSDOC, RRRLF

Unit – 4: Information : Nature, Characteristics and Scope
Data, Information and Knowledge: Conceptual Difference
Growth of Information : Models
Information Communication : Channels, Models and Barriers
Information Society : Attributes, Components
Economics of Information
National Information Policy : Need, Components and Issues

Unit – 5
Library and Information Users
Categories of Information Users
Information Needs and Information Seeking Behaviour : Methods and Techniques

Information Seeking Models: T.D. Wilson, Davis Ellis, Brenda Dervin
Information Literacy: Definition, Objectives and Programmes

Paper- 102 Organization of Knowledge

Unit – 1
Knowledge Organization
Universe of Knowledge / Subject: Nature and Attributes
Different Types of Subjects and their Formation
Knowledge Classification and Library Classification
Library Classification: Definition, Needs and Theories

Unit – 2
Classification Schemes
Features of Library Classification Schemes
Salient Features of DDC, UDC and CC
Mapping of Subject in DDC, UDC and CC.

Unit – 3
Notational Techniques and Recent Trends
Notation : Definition, Types, Functions, Qualities and Techniques
Concept of Categories, Fundamental Categories, Facet Analysis and Sequence
Design and Development of Classification Schedules
Recent Trends in Library Classification

Unit – 4
Bibliographic Description
Catalogue : Definition, Objectives and Functions
Types and Forms of Catalogue

Introduction to Catalogue Codes: CCC & AACR-2

Normative Principles

Standards of Bibliographic Description: ISBD, CCF and MARC-21, Dublin Core

Unit – 5

Entry Elements and Filing

Kinds of Entries and their Elements of Description

Rules for Choice and Rendering of Headings in AACR-2

Elements of Bibliographic Description of Non-Book Material (AACR-2)

Subject Headings: Sear’s List of Subject Heading, Library of Congress Subject Heading

Paper-103 Classification Practical

Construction of Class Numbers representing Simple, Compound, Complex Subjects according to DDC (Latest available edition) – Marks - 60

Assigning of Book Numbers according to Cutter – Sanborn Author Table – Marks 15

Paper-104 Cataloguing Practical

Preparation of Main and Added Entries of Documents according to AACR – 2 (Latest available edition) having the following items

Single Personal Author

Shared Author and Mixed Responsibility

Corporate Author

Serials

Non-Book Materials (Cartographic Materials, Computer Files, CD and Video Recordings)
Assigning Subject Heading to Documents according to Sear’s List of Subject Heading (Latest available edition)

SECOND SEMESTER

Paper- 201 Management of Library and Information Centres

Unit – 1 Management : Concept and Principles
Principles of Management: Scientific Management and their Applications to Libraries and Information Centres
Elements of Management Process(POSDCORD)
Total Quality Management

Unit – 2 Physical Management and Library Operations
Library Building : Site, Selection, Planning
Furniture, Fittings and Equipments : Standards and Specifications
Routines and Work Flow Relating to Different Sections
Elements of System Analysis of Library Operations

Unit – 3 Human Resource Development
Organisational Structure
Job Description and Analysis : Job – Evaluation
Inter – Personal Relations
Recruitment Procedures
Motivation : Group Dynamics
Training and Development
Disciplines and Grievances
Performance Appraisal

Unit – 4 Financial Management
Resource Mobilisation
Budgeting Techniques and Methods – PPBS, Zero Based Budgeting etc.
Budgetary Control
Cost Effectiveness and Cost Benefit Analysis
Outsourcing

Unit – 5 Report Writing and Statistics
Report Writing: Annual Report
Paper-202(A) Information Sources and Services

Unit – 1 Information Sources
Documentary and Non-Documentary Sources
Human and Institutional Sources
Primary, Secondary and Tertiary Sources
Evaluation of Information Sources: Dictionaries, Encyclopedias, Year Books, Directories, Gazetteers

Unit – 2 Information Services
Information Services: Definition, Need and Types
Reference Services in Different Types of Libraries
Reference Question: Analysis
CAS and SDI Services

Unit – 3 Electronic Sources of Information
Electronic Sources: Nature and Types
CD-ROMs, DVD and Multimedia Sources
Internet Sources

Paper-202(B) Information Sources and Services (Practical)

(i) The candidates are required to submit the report of Evaluation of Information Sources. Marks – 15
(ii) The candidates are required to submit the Current Awareness List/Bibliography, Subject Index in a specified field of study. Marks – 10
(iii) Viva – Voce Marks – 10

(The evaluation of the reports of items (i) and (ii) shall be made jointly by the external examiners, based on the performance on the candidates in the Viva-Voce)

Paper-203 Introduction to Information Technology

Unit – 1 Basic Concept
Definition, Scope and Development
Components of Information Technology
Definition, Scope, Need and Objectives of Computer
Generations of Computers

Unit – 2 Hardware and Software Components
Computer Hardware
Input, Output Devices
Storage and Memory
Software: Types and Functions
Introduction to Programming Languages

Unit – 3 Operating Systems
Types and Functions
Study of MS-DOS, UNIX and LINUX
Windows
Word Processing Software

Unit – 4 Library Automation
Concept, Need and Objectives
Planning and Implementation
Use of Computer in House Keeping Operations
Important Library Software Packages

Unit – 5 Database
Definition and Objectives
Types of Databases
Database Structure

Paper- 204 IT Practical and Job Diary

Paper- 204(A) IT Practical

(i) Hands on Experience of working with MS-DOS Commands and
Windows Marks - 15
(ii) Designing of the following Documents by using MS-Word, Excel and
Power Point Marks – 35

- Drafting Letters
- Issuing Reminders
• Preparation of Records
• Preparation of Accession Register
• Power Point Presentation

(iii) Viva Voce  

Marks – 15

Paper- 204(B), Job Diary and Viva Voce

(i) Candidates are required to prepare Job Diary by working in the University Library or any other library specified by the Department to have hands on experiences in every possible unit/section of a library at a regular basis.  

Marks – 25

(ii) The Job Diary is to be submitted by each candidate at the end of the semester. The diary is to be evaluated jointly by both the external and internal examiners based on their performance in the Viva Voce.  

Marks – 10

THIRD SEMESTER

Paper- 301 Information Processing and Retrieval

Unit – 1  
Subject Representation and Indexing Languages  
Problems of Alphabetical Subject Representation  
Contributions of Cutter, Kisser, Ranganathan, Farradane and Coates  
Characteristics of Indexing Languages  
Recall and Precision Devices  
Controlled Vocabulary and Thesaurus: Structure and Construction

Unit -2  
Indexing Systems and Techniques  
Pre Co-ordinate Indexing System: Chain Indexing, PRECIS, POPSI  
Post Co-ordinate Indexing System: Unit Term  
Title Derived Indexing System: KWIC and KWAC  
Citation Indexing: Science Citation Index  
Automatic Indexing

Unit – 3  
Information Retrieval Systems  
Definition, Types, Components of ISAR Systems
Operational Stages
Elements of File Organisation
Artificial Organisation Intelligence and Expert System

Unit – 4  Information Searching and Media
Search Methods and Search Strategy: Boolean Search
On-Line Search Techniques
Information Searching in Different Media: Print Media, Electronic Media and Internet

Unit – 5  Evaluation of Information Retrieval Systems
Need and Parameters of Evaluation
Relevance and Judgement in Retrieval
Retrieval Performances: Recall and Precision Ratio
Important Test Results: Cran Field, MEDLARS
IR Models

Paper- 302  Information Technology Applications

Unit – 1  Communication Technology
Fundamentals of Communication Technology: Media, Mode and Components

Telecommunication Technology
Types of Network and their Components
LAN, MAN and WAN
Network Technology: Star, Bus and Ring

Unit – 2  Internet
Definition, Scope and Objective
Historical Development
Internet Architecture
Internet Services
WWW, Intranet and Extranet

Unit – 3  Network Standards and Protocols
Definition, Scope and Need
Layer of Protocols
Models : OSI Model
TCP / IP
HTTP, FTP and Others

Unit – 4 Data Base Management System
Definition, Objectives and Functions
Types of DBMS and Elements
Data Base Organization and Searching
Architecture and Models

Unit – 5 Digital Library
Basic Concepts : Definition and Historical Perspectives
Technical Infrastructure
Components of Digital Library
Digital Library Collections : Nature and Policy
Digital Library Initiatives and Projects
Intellectual Property Right

Paper- 303 Information Technology Applications (Practical)

(i) Creation and Maintenance of Database by CDS/ISIS and others
(ii) Using of Library Software Packages
(iii) CD-ROM, Online Searching
(iv) Internet Searching

Paper-304(A) Information Analysis, Repackaging and Consolidation

Unit – 1 Basic Concepts
Definition and Scope of Information
Analysis, Repackaging and Consolidation
Content Analysis
Electronic Content Creation

Unit – 2 Information Consolidation and Products
Types of Products and their Nature

Unit – 3 Abstracting
Definition, Types and Usefulness
Guidelines for preparation of Abstract
Evaluation of Abstracts

Paper-304(B) Tour Diary and Viva Voce

(i) Tour Report Marks – 25
(ii) Viva Voce Marks – 10

FOURTH SEMESTER

Paper- 401 Information Systems and Networks

Unit – 1 Information Systems
Definition, Types and Characteristics
Information Organizations and Systems
Planning and Designing of Information System
Evaluation of Information System

Unit – 2 National Information Programme: ENVIS, BIS, PIS

Unit – 3 Global Information Programme
AGRIS, INIS, INSPEC, MEDLARS

Unit – 4 Networks
Resource Sharing and Networking – Objectives and Scope
Features and Characteristics of Library Networks
Data Networks – NICNET, INDONET, ERNET
Important Library Networks: INFLIBNET, DELNET, CALIBNET, MALIBNET
Consortia: UGC, INFONET, INDEST

Unit – 5 Internet Resources
Science and Technology
Social Science
Humanities
Paper-402(A) Preservation and Conservation of Library Materials

Unit – 1 Preservation and Conservation : Overview
Preservation and Conservation : Need and Purpose
Historical Development of Writing Materials

Unit – 2 Preservation of Print Materials
Books
Periodicals
News
Pamphlet

Unit – 3 Preservation of Non-Print Materials
Palm Leaves
Manuscripts
Films
Floppies and Disks

Unit – 4 Hazards to Library Materials and Control Measures
Environment Factor (Temperature, Humidity, Water, Light, Air Pollution, Smoke, Dust etc)
Chemical Factors

Unit – 5 Binding
Types of Binding of Library Materials
Binding Material and their Varieties
Binding Process
Standards for Library Binding

Paper-402(B) Agriculture Information Systems and Services

Unit – 1 Libraries in Agricultural Environment
Role of Libraries in Agricultural Education Research and Extension
Growth and Development of Libraries in Agricultural and Allied Disciplines
Role of ICAR and National Agricultural Library in Promoting Agricultural Libraries and Information Systems
Organisational Pattern of University and College Libraries in Agricultural and Allied Disciplines

Unit – 2 Management of Agricultural Libraries
Library Governance (Academic and Research Institutions), Its Constitution and Power, Library Authority and Committee
Personnel Management in Agricultural University Libraries and Research Institutions and Centers
Library Finance: Determination of Library finance, Sources of Finance, Budget and Budgeting

Unit – 3 Planning, Designing and Development
Library Buildings, Planning, Basic Elements of Design, Furniture and Fittings
Standards and Specifications
Collection Development

Unit – 4 Information Sources, Users and Services
Information Sources in the field of Agriculture and Allied Disciplines – Nature and Type
Indexing and Abstracting Services, CD-ROM an On-Line Databases
Information User – Type and Information Needs
Library and Extension Services
Services to Faculty Members, Scientists and Research Scholars
Information Products and their Users

Unit – 5 Information Systems and Networks
Agricultural Information System – National and International
Role of National Agricultural Information Centers in India
Resource Sharing at the National, Regional and International Level
Use if Agricultural Databases

Paper-402(C) Community Information

Unit – 1 Community Information: Overview
Community Information: Definition, Scope and Origin
Need for Community Information in Society
Role of Libraries in Handling of Community Information
Community Information Studies in UK, USA and other Countries
Community Information studies in India.

Unit – 2  Study of Communities
Types of Communities: Social Communities, Information Communities and Specific Communities
Choice of Areas and Communities
Sampling Techniques
Collection of Information: Questionnaires, Interviews, Other Methods
Compilation and Interpretation of Data

Unit – 3  Information Needs
Information Needs: Definition, Scope
Types of Information Needs and their Methods of Assessment
Everyday Information Needs
Information Sources/Providers: Nature and Characteristics
Information Needs and User Studies: Recent Trends

Unit – 4  Community Information Services
Community Information Services: Meaning, Types and Target Users
Community Information Centres: Planning, Role of Information Provision, Services
Community Information Services to Specific Communities
a) Rural, Urban and Metropolitan Communities
b) Industrial, Business Communities
c) Academic, Research, Institutional and R & D Communities
d) Physically, Mentally Disadvantaged Communities
e) Children, Old People and Illiterate

Unit – 5  Community Profiling
Community Profiling: Definition and Characteristics
Types of Records to be Maintained and their Usefulness
Organisation of Local Collections
Planning and Designing of Community Information Project
Paper- 403  Research Methodology

Unit – 1  Research and Research Design
Concept, Meaning, Need and Process of Research
Types of Research : Fundamental and Applied
Research Design, Types of Research Design
Designing Research Proposal
Literature Search – Print, Non-Print and Electronic Sources

Unit – 2  Research Methods
Scientific Method
Historical Method
Descriptive Method
Survey and Case Study Method
Experimental Method and Delphi Method

Unit – 3  Data Analysis and Interpretation
Collection of Data by Questionnaire, Interview, Observation and Sampling
Presentation of Data-Tables, Charts and Graphs
Interpretation of Data : Frequency Distribution, Measures of Central
tendency, Analysis of Time Series, Co-relation Studies and Analysis of
Variance
Use of Statistical Packages

Unit – 4  Bibliometric Studies
Bibliometric Studies: Meaning, Scope and Parameters
Bibliometric Laws and their Applications
Citation Analysis and Obsolescence Studies
Trends in Bibliometrics
Informetrics, Scientometrics and Webometrics
Unit – 5  Report Writing
Preparation of writing of Research and Technical Report
Preparation of Thesis and Dissertation
Tools for Technical Writing Style Manuals
Guidelines for Research Reporting

Paper- 404  Project Report/Dissertation and Viva Voce

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REFERENCES


Estabrook, Leigh and Montague Rae-Anne. Library and Information Science Education. Encyclopaedia of Library and Information Science. 2nd ed. Vol. 4


