GENERAL INSTRUCTIONS:

1. Bachelor of Library and Information Science One Year Course will be in two semester (Semester-I and Semester-II) on the basis of Credit Based Semester pattern. It is recommended that it will be treated as equivalent to First Year of the M LISc (Two Years Integrated /choice Based Credit System pattern Course.

2. Semester I and Semester II will be for BLISc (CBS) and MLISc Part-I (CBCS) and Semester III and IV will be for MLISc Part-II (CBCS)

3. There shall be 5 Theory papers and 4 Practical papers in each Semester for BLISc(CBS) and MLISc Part-I (CBCS). All the papers are Core and compulsory.

4. There Shall be 5 Core, 4 Elective and 1 Foundation Paper for MLISc Part – II (CBCS) for each semester. The student has to take all the 5 Core papers, any 1 Elective Papers from the options given in the syllabus for Semester III and IV. The Foundation paper given in the syllabus is for the Students coming from other P.G. Departments. MLISc Part – II (CBCS) Semester III and IV Students should select the Foundation Course from any other P.G. Department of their choice. They should earn the credits from the respective departments.

5. There will be 100 marks in each paper, out of which 80 marks will be for University Examination and 20 marks will be for Internal Assessment.

6. There will be 4 credits in each paper.

7. Details of minimum passing marks for each paper is appended as examination scheme.

8. The students will be required to pass in university examination and internal assessment aggregative.

9. Credits will be calculated on marks obtained out of 100 or 50.

QUESTION PAPER PATTERN :

10. There will be 4 units in each paper and one question will be asked on each unit. Question paper will consist of five questions and all questions shall be compulsory. Each question will carry 16 marks.

11. First four questions will be based on four units as specified in the syllabi of the given subject with internal choice only.

12. Fifth question will be compulsory having subject question from each of the four units with equal weight-age and there will be no internal choice.

13. Total marks of each Theory paper will be 100 marks.

14. Time duration of each Theory paper will be Three (3) Hours.

15. Minimum passing marks (Theory, Practical and Internal Assessment) will be 40%.
INTERNAL ASSESSMENT MARKS DISTRIBUTION:
16. Internal Assessment of 20 marks for each paper, The internal assessment shall be done by the college. The internal assessment marks will be awarded on the basis of assignments like class test, attendance, project assignment, seminar, study (educational) tour, visit to libraries and information centres, group discussion any other innovative practice/activity.

ADMISSION
17. Subject to the compliance with the provisions of this Direction and of the ordinances in force from time to time an applicant for admission to semester –I examination shall have passed the Bachelor Degree examination of this university or of any other statutory recognized university as equivalent to the Bachelor Degree of this university other than B.L.I.Sc.
18. Admission of Post graduate programs (MLISc – 4 semester course) and BLISc will be based on merit at the graduation level.
19. ATKT refers to allowed to keep them in higher semester as per University norms.

ABSORPTION SCHEME
20. BLISc (CBS) as well as BLISc Yearly Pattern passed students shall be admission to third semester directly.
21. For Second semester candidate should have satisfactory completed the term work and appeared at least 01 theory paper of Semester- I exam.
22. For third semester (MLISc – Two years integrated Choice Based Credit System pattern course) student should have passed 60% subject each of semester-I and semester-II together.
23. For forth semester student should have passed 60% subject each of semester-I & semester-II and appeared at least 01 theory paper of semester III exam.
24. Student shall get requisite credit from the concerned college where he / she is mutually permitted on terms mutually agreed to complete the same and be eligible to appear for Semester End Examination conducted by Gondwana University, Gadchiroli.
25. Without prejudice to other ordinances in force relating to the examination the provisions said ordinance shall apply to every student admitted to this degree.
26. The fees for the tuition, examination, laboratory and other fees shall be as prescribed by the university from time to time.
27. The scope of the subject shall be as prescribed in the syllabus.
28. The medium of instruction and examination shall be in Marathi/ Hindi /English.
29. The number of paper and maximum marks assigned to each paper and minimum marks / grade, as examinee must obtain in order to pass the examination shall be as prescribed in appendix 1 & 2 as the case may be.
30. The examinee at each of the examination shall have option of not being declared successful at the examination in case he / she does not secure a minimum of grade equivalent to 55% marks at the examination. Once this option is exercised, the option shall be binding on the examinee for that Semester examination only and it shall not be revoked under any circumstances.
31. The classification of the examinee successful at the Semester end examinations and at the end of final Semester examination shall be as per the rules and regulations of Credit Based Semester Pattern.

32. The provisions of Direction no. 3 of 2007 for the award of grace marks for passing an examination, securing higher grade in subject(s) as updated from time to time shall apply to the examination under this direction.

33. The provisions of ordinance regarding improvement of Grade / Division shall be applicable.

34. The names of the successful examinee passing the examination as a whole in the minimum prescribed period and obtaining prescribed number of places securing the grades equivalent to first and second division shall be arranged in order of merit as provided in ordinance 6 relating to examination in general.

35. No candidate shall be admitted to an examination under this direction, if he / she have already passed the same examination of this university or of any other university.

36. Examinee successful at the final examination shall on payment of the prescribed fees, will be entitled for the award of the degree in the prescribed form signed by the Vice Chancellor.

37. This course is based on Credit Based Semester Pattern and therefore, it will be also regulated by guidelines and regulation issued by the university from time to time.

38. Every student after completion of M.L.I.Sc II semester examination (B.Lib.I.Sc./M.lib.I.sc. Integrated course four semester) shall be required to undergo a course of practical library work (internship) for a period of not less than thirty working days during vacation after second semester in any of the libraries of the affiliated colleges/institutions recognized by the university.

39. Grade & Grade Point -Marks of each paper which requires minimum passing percentage as 40% would be converted to grades and grade point as shown in Table given below.

Table: Conversion of Marks to grades and grade point in credit System

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Marks Obtained (Out of 100)</th>
<th>Grade</th>
<th>Grade Point (Out Of)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>75 &amp; above</td>
<td>O-Outstanding</td>
<td>6</td>
</tr>
<tr>
<td>02</td>
<td>74 To 65</td>
<td>A-Very Good</td>
<td>5</td>
</tr>
<tr>
<td>03</td>
<td>64 to 55</td>
<td>B-Good</td>
<td>4</td>
</tr>
<tr>
<td>04</td>
<td>54 to 50</td>
<td>C-Average</td>
<td>3</td>
</tr>
<tr>
<td>05</td>
<td>49 to 45</td>
<td>D-Satisfactory</td>
<td>2</td>
</tr>
<tr>
<td>06</td>
<td>44 to 40</td>
<td>E-Pass</td>
<td>1</td>
</tr>
<tr>
<td>07</td>
<td>Below 40</td>
<td>F-Fail</td>
<td>0</td>
</tr>
</tbody>
</table>
40. Credit Point (C) – Credit Point is calculated for each and every successful papers / course as per following formula. 
Credit Point (C) = Credit x Grade Point
41. On clearing all the papers in a Semester, a student will be allotted a Semester Grade Point Average (SGPA) for that particular Semester.
42. The computation of Semester Grade Point Average (SGPA) of an examinee shall be as per the formula given below:

   a. The marks shall be given in all examinations which will include the college assessment marks, and total marks for each Theory / Practical and shall be converted into Grades as per above table. SGPA shall be computed based on Grade Points corresponding to Grade as given in above table and the credits allotted to respective Theory / Practical shown in the scheme for respective Semester.

   b. SGPA shall be computed for every Semester as per formula given below

\[
SGPA = \frac{C1 \times G1 + C2 \times G2 + C3 \times G3 + C4 \times G4}{C1 + C2 + C3 + C4}
\]

43. A student will be allotted a Cumulative Grade Point Average (CGPA) after clearing all the four Semesters and it shall be calculated as per the following formula

\[
CGPA = \frac{(SGPA) I \times (Cr) I + (SGPA) II \times (Cr) II + (SGPA) III \times (Cr) III + (SGPA) IV \times (Cr) IV}{(Cr) I + (Cr) II + (Cr) III + (Cr) IV}
\]

The conversion of CGPA into grade shall be as follows

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Grad Points</th>
<th>Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>5.0 to 6.0</td>
<td>O</td>
</tr>
<tr>
<td>02</td>
<td>4.50 to 4.99</td>
<td>A</td>
</tr>
<tr>
<td>03</td>
<td>3.50 to 4.49</td>
<td>B</td>
</tr>
<tr>
<td>04</td>
<td>2.50 to 3.49</td>
<td>C</td>
</tr>
<tr>
<td>05</td>
<td>1.50 to 2.49</td>
<td>D</td>
</tr>
<tr>
<td>06</td>
<td>0.50 to 1.49</td>
<td>E</td>
</tr>
<tr>
<td>07</td>
<td>0.00 to 0.49</td>
<td>F</td>
</tr>
</tbody>
</table>

Final Mark List will only show the Grade and the Grade Points and not the marks.

44. For declaring the result, verification and revaluation the existing relevant ordinances are applicable.
45. The candidate may take all the examinations as per the provisions of ATKT simultaneously but his result of final Semester shall not be declared unless he is declared successful at all lower examinations.
46. Internal Assessment marks shall be awarded on the basis of Seminar, Viva, and Assessment/Test exam conducted by College.

47. **Right of Rejection:**

Candidate shall have right to reject the result of Semester, subject to following conditions:

- **a.** The candidate shall have option to reject the result of Semester/Term End Examination and can appear afresh with all papers for rejected Semester End Examination.
- **b.** Subject-wise rejection will not be permitted.
- **c.** Candidate who rejects the result shall be allowed to appear in the subsequent Examinations.

\[
\text{(SGPA)} - I \times (Cr) I + (SGPA) II \times (Cr) II + (SGPA) III \times (Cr) I II + (SGPA) IV \times (Cr) IV \times (Cr) I + (Cr) II + (Cr) III + (Cr) IV
\]

- **d.** Rejection shall be exercised only once in each semester and rejection once exercised cannot be revoked under any circumstances.
- **e.** Candidate should submit the application for the rejection along with Original Statement of Marks and payment of prescribed fees to university through college within the 15 days from the date of declaration of result of that semester.
## Course Structure for

**Degree of Master of Library and Information Science (MLISc)**  
(2 Year Integrated Course : Semester, Choice Based Credit System)  

And

**Bachelor of Library and Information Science (BLISc)**  
( Equivalent to MLISc first Year CBCS)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course Name</th>
<th>Credit Distribution</th>
<th>Marks Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory</td>
<td>Practical</td>
</tr>
<tr>
<td>FIRST SEMESTER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/I/T/01</td>
<td>Foundation of Library and Information Science</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/I/T/02</td>
<td>Knowledge Organization and Library Classification</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/I/T/03</td>
<td>Library Cataloguing</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/I/T/04</td>
<td>Information Sources</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/I/T/05</td>
<td>Information Technology Basics</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/I/P/06</td>
<td>Classification Practice (Part-I)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td>LIS/I/P/07</td>
<td>Cataloguing Practice (Part-I)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td>LIS/I/P/08</td>
<td>Information Technology Basics Practice (Part-I)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td>LIS/I/P/09</td>
<td>Information Sources Practice (Part-I)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
<td><strong>16</strong></td>
<td><strong>720</strong></td>
</tr>
<tr>
<td>SECOND SEMESTER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/II/T/10</td>
<td>Library House Keeping Operation</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/II/T/11</td>
<td>Management of Libraries and Information Centres</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/II/T/12</td>
<td>Information Services</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/II/T/13</td>
<td>Library Automation</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/II/T/14</td>
<td>Research Methods and Statistical Techniques</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/II/P/15</td>
<td>Classification Practice (Part-II)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td>LIS/II/P/16</td>
<td>Cataloguing Practice (Part-II)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td>LIS/II/P/17</td>
<td>Information Technology Basics Practice (Part-II)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td>LIS/II/P/18</td>
<td>Information Sources Practice (Part-II)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
<td><strong>16</strong></td>
<td><strong>720</strong></td>
</tr>
</tbody>
</table>
Degree of Master of Library and Information Science (MLISc)
(2 Year Integrated Course : Semester, Choice Based Credit System)
Second Year
And
Degree of Master of Library and Information Science (MLISc)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course Name</th>
<th>Credit Distribution</th>
<th>Marks Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory</td>
<td>Practical</td>
</tr>
<tr>
<td>THIRD SEMESTER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/III/T/19</td>
<td>Information Analysis, Repackaging and Consolidation</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/III/T/20</td>
<td>Information Storage, Retrieval and Bibliographical Control</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/III/T/21</td>
<td>System Analysis and Bibliometrics</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/III/T/22</td>
<td>ICT Applications in Libraries and Information Centres</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td></td>
<td>Elective Papers : Any one of the following</td>
<td>04</td>
<td>00</td>
</tr>
<tr>
<td>LIS/III/T/23-EL.1</td>
<td>Elective 1- Industrial Information System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/III/T/23-EL.2</td>
<td>Elective 2- Agricultural Information System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/III/T/23-EL.3</td>
<td>Elective 3- Legal Information System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/III/T/23-EL.4</td>
<td>Academic Library and Information System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/III/P/24</td>
<td>Information Technology Application (Part-I)</td>
<td>00</td>
<td>04</td>
</tr>
<tr>
<td>LIS/III/P/25</td>
<td>Educational Tour Report, Survey of Libraries and Information Centres</td>
<td>00</td>
<td>02</td>
</tr>
<tr>
<td>LIS/III/P/26</td>
<td>Internship</td>
<td>00</td>
<td>02</td>
</tr>
<tr>
<td>LIS/III/P/27</td>
<td>Project Seminar</td>
<td>00</td>
<td>02</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>20</td>
<td>10</td>
</tr>
</tbody>
</table>

Foundation Paper –Only for Other P.G. Department (Interdisciplinary) Students (Not for LIS Students)

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course Name</th>
<th>Credit Distribution</th>
<th>Marks Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory</td>
<td>Practical</td>
</tr>
<tr>
<td>LIS/III/T/28 / FC- Part -I</td>
<td>Fundamentals of Library Science</td>
<td>04</td>
<td>00</td>
</tr>
</tbody>
</table>
**FOURTH SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Theory</th>
<th>Practical</th>
<th>Activity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIS/IV/T/29</td>
<td>Information System and Networks</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>LIS/IV/T/30</td>
<td>Management of ICU, Marketing and Technical Writing</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>LIS/IV/T/31</td>
<td>Computer Generated Indexes and Retrieval Techniques</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>LIS/IV/T/32</td>
<td>Digital Libraries</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Elective Papers- Any one of the following</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>LIS/IV/T/33</td>
<td>Archival, Museums and Archaeological Information System</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>EL.1</td>
<td>Bio-technology Information System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/IV/T/33</td>
<td>Engineering and Technological Library and Information System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-EL.2</td>
<td>Public Library and Information System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/IV/T/33</td>
<td>Archival, Museums and Archaeological Information System</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>-EL.3</td>
<td>Bio-technology Information System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/IV/T/33</td>
<td>Engineering and Technological Library and Information System</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>-EL.4</td>
<td>Public Library and Information System</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS/IV/P/34</td>
<td>Information Technology Applications (Part-II)</td>
<td>00</td>
<td>04</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>LIS/IV/P/35</td>
<td>Project Work Report Vivo Voce</td>
<td>00</td>
<td>04</td>
<td>80</td>
<td>20</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>20</td>
<td>10</td>
<td>610</td>
<td>140</td>
<td>750</td>
</tr>
</tbody>
</table>

**Foundation Paper –Only for Other P.G. Department (Interdisciplinary) Students (Not for LIS Students)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Theory</th>
<th>Practical</th>
<th>Activity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIS/IV/T/36 / FC-Part II</td>
<td>Fundamentals of Information Science</td>
<td>04</td>
<td>00</td>
<td>80</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>
Master of Library and Information Science
M.Lib.I.Sc (CBCS) (Two years in Four semesters Integrated Course)
and
Bachelor of Library and Information Science
B.Lib.I.Sc (CBS)

Statement showing semester, theory and practical paper, teaching scheme, credits, duration, maximum and minimum marks in order to pass the examination.

**SEMMESTER I**

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Credits</th>
<th>Examination Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Duration (Hrs)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Maximum Marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>External Marks (Univ.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Internal Assessment Marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total Marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Minimum Passing Marks</td>
</tr>
<tr>
<td>1</td>
<td>LIS/I/T/01</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>LIS/I/T/02</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>LIS/I/T/03</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>LIS/I/T/04</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>LIS/I/T/05</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>20</td>
<td>20</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Practical Papers</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>LIS/I/P/06</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>LIS/I/P/07</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>LIS/I/P/08</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>LIS/I/P/09</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>32</td>
<td>16</td>
<td>12</td>
</tr>
<tr>
<td><strong>Net total (Theory and Practical)</strong></td>
<td></td>
<td>52</td>
<td>36</td>
<td>27</td>
</tr>
</tbody>
</table>
## SEMESTER- II

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Credits</th>
<th>Examination Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Duration (Hrs)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>External Marks (Univ.)</td>
</tr>
<tr>
<td>1</td>
<td>LIS/II/T/10</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>LIS/II/T/11</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>LIS/II/T/12</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>LIS/II/T/13</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>LIS/II/T/14</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
</tr>
</tbody>
</table>

### Practical Papers

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Credits</th>
<th>Examination Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Duration (Hrs)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>External Marks (Univ.)</td>
</tr>
<tr>
<td>6</td>
<td>LIS/II/P/15</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>LIS/II/P/16</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>LIS/II/P/17</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>LIS/II/P/18</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

### Net total (Theory and Practical)

<table>
<thead>
<tr>
<th></th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Credits</th>
<th>Examination Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Duration (Hrs)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>External Marks (Univ.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>52</td>
</tr>
<tr>
<td>Sr.No</td>
<td>Theory Paper</td>
<td>Teaching Scheme (Hrs/Week)</td>
<td>Credits</td>
<td>Examination Scheme</td>
</tr>
<tr>
<td>-------</td>
<td>--------------</td>
<td>---------------------------</td>
<td>---------</td>
<td>--------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td>LIS/III/T/19</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/III/T/20</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/III/T/21</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/III/T/22</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>LIS/III/T/23-EL.1</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>LIS/III/T/23-EL.2</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>LIS/III/T/23-EL.3</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>LIS/III/T/2-EL.4</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>20</td>
<td>20</td>
<td>15</td>
</tr>
</tbody>
</table>

| Practical Papers | |
| Core | LIS/III/P/24 | 8 | 4 | 3 | 80 | 20 | 100 | 40 |
| Core | LIS/III/P/25 | 2 | 2 | -- | -- | 50 | 50 | 20 |
| Core | LIS/III/P/26 | 2 | 2 | 30 Working days | 50 | 50 | 20 |
| Core | LIS/III/P/27 | 4 | 2 | 3 | -- | 50 | 50 | 20 |
| Total |                  | 12                        | 10      | 06                 | 80             | 170           | 250   | 100                 |

| Net total (Theory and Practical) | 32 | 30 | 21 | 480 | 270 | 750 | 300 |

| Foundation | LIS/III/T/28/ FC- Part -I | 4 | 4 | 3 | 80 | 20 | 100 | 40 |
Master of Library and Information Science  
Semester wise Syllabus  
(Paper, Subjects, Denomination of Total Marks and Theory, Practical, Internal Assessment and Total Marks) 

**SEMESTER IV**

<table>
<thead>
<tr>
<th>Sr.No</th>
<th>Theory Paper</th>
<th>Teaching Scheme (Hrs/Week)</th>
<th>Credits</th>
<th>Examination Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Duration (Hrs)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Maximum Marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>External Marks (Univ.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Internal Assessment Marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total Marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Minimum Passing Marks</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/IV/T/29</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/IV/T/30</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/IV/T/31</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/IV/T/32</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>LIS/IV/T/33EL.1</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>LIS/IV/T/33-LE.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LIS/IV/T/33-EL.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LIS/IV/T/33-EL.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practical Papers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core</td>
<td>LIS/IV/P/34</td>
<td>8</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Core</td>
<td>LIS/IV/P/35</td>
<td>8</td>
<td>4+2</td>
<td>--</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>10</td>
<td>3</td>
</tr>
<tr>
<td>Net total (Theory and Practical)</td>
<td>36</td>
<td>30</td>
<td>18</td>
<td>610</td>
</tr>
<tr>
<td>Foundation</td>
<td>LIS/IV/T/36/ FC-Part II</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>
Details of Syllabus

B.Lib/M.Lib.I.Sc

SEMESTER-I
Examination Leading to the Degree of Library and Information Science

LIS/I/T/01: Foundation of Library and Information Science

Unit-I: Laws of Library Science and Role of Libraries
  - Five Laws of Library Science
  - Implications of Five Laws in Library and Information Science
  - Library as a social Institution
  - Role of Library and Information Centres in Modern Society

Unit-II: Types of Libraries
  - Academic Libraries: School, College and University Libraries
  - Special Libraries and Information Centres
  - Public Libraries
  - National Library of India: Concept, functions and Services
  - Mobile Libraries and Children Libraries

Unit-III: Library Development & Legislation
  - History and Development of Library, writing material and printing in India
  - Recent Trends in Library and Information activities in India
  - Library Legislation: Need, Purposes, Objectives
  - Library Legislation in India
  - Maharashtra Public Libraries Act-1967
  - Press and Registration Act, Copyright Act

Unit-IV: Professional Associations
  - National LIS associations: ILA, IASLIC, IATLIS
  - International LIS associations: IFLA, ALA
  - Role of professional associations in the growth of LIS profession

LIS/I/T/02: Knowledge Organization and Library Classification

Unit-I: Universe of Knowledge
  - Knowledge: Concept, Definition, Types
  - Structure, Nature and Attributes of Universe of Subject
  - Modes of formation of Subject

Unit-II: Library Classification Theory
  - Definition, Need and Purpose of Classification
  - Planes, Canons, Principles , Fundamental Categories, Postulates, Facet Analysis and Facet Sequence
  - Phase Relation, Common Isolates, Devices, Mnemonics
  - Knowledge Classification Vs Book Classification
Unit-III: Classification Schemes
- Species of Library Classification Schemes
- Salient feature of Colon Classification, Dewey Decimal classification, and Universal Decimal Classification
- Mapping of Subjects in DDC, UDC, and CC

Unit-IV: Notational Techniques and Recent Trends in Library Classification
- Notation: Definition, Types, Function, Qualities and Techniques
- Design and Development of Classification Schedules
- Recent Trends in Library Classification

LIS/I/T/03: Library Cataloguing

Unit-I: Cataloguing Principles
- Catalogue: Definition, Objectives, Need and Functions
- Types of Catalogue and Physical Forms of Catalogue
- Principles of Cataloguing: Ranganathan’s Cannon
- Introduction to Catalogue Codes: CCC, AACR- II

Unit-II: Entry Element, Filing and Subject Headings
- Kinds of Entries: Main Entry, Added Entry, Reference Entry, Cross Reference Entry, Index Entry and their elements
- Subject Heading List and Their Features: LC and Sear’s List of Subject Heading
- Principle of Subject Cataloguing
- OPAC, WEBOPAC

Unit –III Cataloguing
- Selective and Simplified Cataloguing
- Centralized and Co-operative Cataloguing
- Union Catalogue
- Cataloguing of Non book Material
- Organization of Cataloguing Department

Unit-IV Bibliographic Description
- ISBD, FRAD (Functional Requirements for Authorized Description), GARR (Guidelines for Authority Record and References), RDA(Resources Description and Access)
- SBN, ISSN
- Bibliographic Records Format- MARC 21, CCF
LIS/I/T/04: Information Sources

Unit-I: Information Sources
- Meaning, Definition and Need for Information Sources in Libraries
- Kinds of Information: Primary, Secondary and Tertiary Sources of Information
- Sources of Information: Documentary and Non Documentary (Human and Institutional)

Unit-II: Reference Sources
- Meaning, Definition and Kinds of Reference Sources
- Bibliographical sources: INB, BNB an trade bibliographies
- Nature and characteristics of Reference books
- Need and Criteria for evaluation of Reference Books
- Evaluation of selected Reference Books

Unit-III: Information Users and Their Information Needs
- Types of Users
- Approaches and Needs of Users
- User Studies: Purpose and Techniques
- Information Seeking Behavior

Unit-IV: User Education, Organizational Aspects of Reference Service
- User Education: Objectives and Techniques
- User Education in Public, Academic and Special Libraries
- Organization of Reference Department/Reference Service
- Qualities of a Reference Services

LIS/I/T/05: Information Technology – Basics

Unit-I: Information Technology
- Definition, Need, Scope and Objectives
- Components of Information Technology
- Computer Technology –History, Classification and generation of computers.
- Applications of IT in Libraries and Information Centers

Unit-II: Computer Hardware
- Memory: Primary and Secondary
- Input Devices
- Output Devices
- Secondary Storage Devices

Unit-III: System software
- Operating System; Single and Multi User Systems
- MS-DOS, MS-indows, XP, Vista, Windows NT, LINUX, UNIX
- Programming Languages
- Algorithms and Flow Charting

Unit-IV: Application software
- Word Processor
- Spread Sheets
- DBMS Packages
- Introduction to Library Management Software
SEMESTER –I PRACTICE

LIS/I/P/06 : Classification Practice (Part I)
- Classification of Subject using DDC (Latest Edition)
- Basic Subject and Compound Subject
- Tables : 1, 2 and 3
- “Add” Instruction

LIS/I/P/07 : Cataloguing Practice (Part I)
- Cataloguing of Documents using AACR (Latest Edition)
- Single, Joint Author, Corporate Author, Composite Books, Pseudonymous
- Structure of Main entries, Added entries, Reference entries

LIS/I/P/08 : Information Technology Basics Practice (Part-I)
- MS-Office
- Creation of Purchase Order, Bio-data in Word file
- Creation of presentation in MS-Power Point
- Creation of Mark sheet, Salary Slips, Accession Register in MS-Excel
- Creation of Charts

LIS/I/P/09 : Information Sources Practice (Part – I)
- Study of various Reference Sources with special reference to India: Dictionaries,
- Encyclopedias, Year Books and Directories
- Evaluation of selected standard Reference Sources
- Finding information from above standard reference sources
SEMESTER II

LIS/II/T/10: Library House Keeping Operations

Unit-I: Collection Development
- Different Operation : Mechanism and components.
- Collection development : Purpose and Policy
- Selection Acquisition of documents: Principles, Tools and Functions
- Acquisition : Mechanism of Procurement, functions and problems

Unit-II: Technical Processing, Serials Management
- Technical Processing: Need, Role and Procedure
- Serials : Concept and types
- Serials Management: Selection and Acquisition Recording, Circulation, Problems and Issues
- Serial Control Systems : Traditional and Automated systems

Unit-III: Circulation Control System and Preservation
- Circulation : Concept, Need and Function
- Charging and Discharging Systems : Traditional and Modern System
- Protection against enemies of Books, Binding
- Conservation, Preservation and Restoration of Print, Non-Print, and Electronic Materials
- Stock Verification : Methods and Tools
- Stock Evaluation, loss and write off books

Unit- IV: Library Records
- Library Records: Purpose, Types
- Annual Report: Contents, Compilation
- Library statistics: Purpose, Items including methods of Compilations

LIS/I/T/11: Management of Libraries and Information Centres

Unit-I: Management Concept, Planning and Principles
- Concept, Definition and scope of Management
- Schools of thoughts in Management
- Modern Approaches to Management
- Principles of Scientific Management- Their application to Libraries and Information Centers
- Planning: Concept, Need and Purpose, Steps, planning of library and information centers, Forecasting techniques

Unit-II: Human Resource Management
- Human Resources Planning
- Recruitment, Selection and Job Description
- Training and Development, Performance Appraisal
- Leadership: Styles and skills
- Motivation

Unit-III: Financial Resource Management
- Sources of Finances and Resource Mobilization
- Budget and Budgeting – Traditional Methods; PPBS, Zero Based Budgeting
- Budgetary and Non Budgetary Control
Unit-IV: Trends in Management Techniques
- MBO, TQM
- SWOT Analysis
- Management of Change
- Six-Sigma
- Outsourcing, Re-engineering, MIS

LIS/II/T/12: Information Services

Unit-I: Information Services
- Information Services: Definition, Scope, Need, Functions and Trends
- Types of Information Services: Reference Service, Referral Services, Bibliographic Service, Translation Service, CAS/Alerting Service, SDI service
- Document Delivery Service

Unit-II: Abstracting and Indexing Services
- Types of Abstracts and their use
- Techniques of Preparation of abstract
- International and National Abstracting Services
- Index: Meaning, Types and use
- International and National Indexing Services

Unit-III: Trends in Reference and Information Services
- Impact on IT on Reference and Information Services: Databases, Electronic Reference Sources Service
- Electronic document Delivery
- Internet as a source of Information Service

Unit-IV: National and International Information Centers
- Information Centers and Systems National Information Centers and Systems (NISCAIR, NASSDOC, DESIDOC, NCSI)
- International Information Systems (INIS, AGRIS, DEVSIS, MEDLARS)
LIS/II/T/13: Library Automation

Unit-I: Planning of Library Automation
- Selection of Hardware
- Selection of software Human Resource Development For IT Challenges

Unit-II: Automation of Housekeeping Operations
- Automated Acquisition System
- Automated Cataloguing System
- Automated Circulation System
- Automated Serial control system

Unit-III: Library Management Software
- CDS/ISIS
- LIBSIS
- SOUL
- Open Source Library Management software
- e-Granthalaya

Unit-IV: Communication Technology
- Fundamentals of Communication Technology: Media, Mode and Components
- Network Media: Optical Fiber, Ethernet, Network Interface Card, Hubs, Routers and Modems
- Types of Network: LAN, MAN, WAN

LIS/II/T/14: Research Methods and Statistical Techniques

Unit-I: Research
- Concept, Meaning, Importance and Purpose of Research
- Types of Research- Fundamental and Applied including interdisciplinary and multidisciplinary research

Unit-II: Research Design
- Aims and Objectives
- Scope and Limitations
- Problem identification and formulation
- Hypothesis
- Designing of Research Proposal

Unit-III: Research Methods, Tool and Techniques
- Research Method: Scientific, Historical, Case Study, Survey, Descriptive, Experimental Method
- Research Tools: Questionnaires, Schedule, Interview, Observation, Scales and Check lists
- Library Record and Report
- Sampling Techniques

Unit-IV: Statistical Techniques
- Measures of Central Tendency: Mean, Median and Mode and Standard Deviation
- Measure of Dispersion, Variance and Covariance
- Z-test, T-test, Chi Square Test
- Presentation of Data: Tabular, Graphic, Bar Diagram, Pie Chart, etc.
- Data Analysis: SPSS, MS-Excel
SEMESTER –II PRACTICE

LIS/II/P/15 : Classification Practice (Part-II)
- Library Classification of subject using DDC (Latest Edition)
- Complex Subject
- Tables 4, 5, 6 and 7
- Assigning Book Number (Using at least one standard Book Numbering System)

LIS/II/ P/16: Cataloguing Practice (Part-II)
- Library Cataloguing of Documents using AACR (Latest Edition)
- Non-Book Materials: Audio – Video Disks, Microforms, Maps, Atlases, Globes
- Assigning Subject Heading either by standard Subject Heading Lists or by Chain Procedure

LIS/II/ P/17: Information Technology Basics Practice(Part-II)
- Database Creation using at least one DBMS Software
- Database creation using any Library Automation Software
- Searching of Bibliographic database, OPAC
- Creation of Users Database

LIS/II/P /18 : Information Sources (Part II)
- Study of various reference sources with special reference to India: Bibliographical sources, Geographical sources, Special Reference Sources, Bibliographical Sources
- Evaluation of selected above standard reference sources.
SEMESTER III

LIS/III/T/19 : Information Analysis, Repackaging and Consolidation

Unit-I: Information analysis
- Concept, Definition, need and Methods of Information analysis
- Abstracting: types, Techniques and guidelines in preparing abstracts

Unit-II: Repackaging and Consolidation
- Concept of Repackaging of Information
- Need for Repackaging and Consolidation
- Method and tools of consolidation
- Formatting
- Content analysis

Unit-III: Information products
- Information Products: Nature and concept
- Design and development of information product

Unit-IV: Research Trends in Information Analysis, Repackaging and Consolidation
- Trends
- Electronic Content Creation

LIS/III/T/20: Information Storage and Retrieval and Bibliographical Control

Unit-I: Information Storage and Retrieval System
- Concept, Objectives, Importance, Functions, and Parameters
- Components, Operations involved
- Document Representation and Document Description

Unit-II: Bibliographic Description
- Bibliographic Description: Concept, Rules, Principles and Practices
- Standard of Bibliographic Record format, Bibliographic Control
- Document Description Standards: National and International Level
- Current Trends in Standardization and information exchange

Unit-III Indexing Process and Models
- Concept, Objectives, Importance and process of Indexing
- Indexing Models: Subject Index, PRECIS, POPSI, KWIC /KWOC and Citation Index

Unit-IV: Indexing Language
- Characteristics and Types
- Vocabulary Control
- Natural and Controlled Language
- Semantic and Syntax
- Thesaurus: Purpose, Function, Design and Construction
LIS/III/T/21: System Analysis and Bibliometrics

Unit-I: Computerized Information System
- Automated sub-system of a library
- Planning and Development of Computerized Information System
- Database Management System
- Management Information System

Unit-II: System Analysis
- Concepts, Need and Types of System Study
- System Analysis
- Role of System Analyst
- Professional skills for System Analyst

Unit-III: System Design and Development
- Structured System Development
- Methodology for System Development
- Feasibility Study
- System Development Life Cycle
- Flowcharts

Unit-IV: Bibliometrics
- Concept, Definition and Objectives of Bibliometrics
- Bibliometrics Laws: Zipf’s Law, Lotka’s Law, Bradford’s Law
- Informatrics
- Webometrics

LIS/III/T/22: ICT Application in Libraries and Information Centers

Unit-I: Communication Technology
- Fundamentals of Telecommunication Technology and Media
- Network Media, UTP, Optical Fiber, Ethernet, Network Interface Card, Hubs, Router and Modem
- Network types and Topologies: LAN, WAN, and MAN
- Bus, Star, Ring, Token Ring etc.

Unit-II: Internet: Basic Features and Tools
- Basics of Internet: History and Development
- Web Browsers, Search Engines, Meta Search Engines
- Connectivity: Drupe, Leased Lines, ISDN, Digital Subscriber Lines
- E-mail, SMTP, Wireless
- Protocols: TCP/IP, FTP, HTTP
- Internet Security

Unit-III: Web Technologies, Library Network and Consortia
- Library Websites: Contents, Design and Evaluation
- Web OPACs
- Web 2.0 and Web 3.0: Functions and features
- Web 2.0 Tools and their applications in Libraries – Weblogs, Podcasts, RSS Feed, Instant Messaging, Wikis, Flicker, Social Networking
- Major Library Networks: INFLIBNET, DELNET, OCLC
- Library Consortia: UGC Infonet, INDEST-AICTE, National Knowledge Resource Consortium
Unit-IV: Emerging Technologies in Libraries
- Library Security Technology: RFID, Bar Code, Smart Card, Biometrics, CCTV
- Video Conferencing and Audio Conferencing: Concept, Tools and Techniques
- Cloud Computing

Elective Papers

LIS/III/T/23-EL.1: Industrial Information Systems

Unit-I: Information Services and Products
- Reference, referral and technical inquiry services
- Alerting Services – CAS, SDI
- Translation and Document delivery services
- Information Analysis and Consolidation Products – Trend Reports, Reviews, Digest Service, Market Survey Reports, etc.
- Marketing of Industrial Information Services and Products

Unit-II: Impact of IT on Industrial Information System
- Impact on Collection Development – e-resources
- Use of Industrial Databases – CD-ROM and Online
- Use of Internet and digital resources
- Resource sharing and networking including consortia

Unit-III: Management Information System for Industries
- Data Servers, Data Banks
- Digest Service, technical notes and management briefs
- Preparation of feasibility study reports, market survey reports, company profiles, etc.
- Design and development of in-house databases

Unit-IV: Industrial Information Systems and Centers
- National Systems and Centers – CSIR and its national laboratories, NISCAIR, SENDOC, Patent Information System, TIFAC, etc
- Role of International Organizations in Industrial Information – UNIDO, UNDP, OECD, ISO, etc
LIS/III/T/23-EL.2 : Agricultural Information System

Unit- I: Agricultural Services and Products
- Information Services rendered to faculty and research scholars
- Extension Services
- Web based Services
- Advanced Information Services and Products

Unit- II: Agricultural Information Centers
- Agricultural Information Centers: National
- Agricultural Information Centers: International

Unit -III: Agricultural Information Systems and Networks
- Agricultural Information Systems in India
- Agricultural Information Systems: International
- Agricultural Networks in India Agricultural Networks: International
- Resource sharing and Networking in Agricultural Libraries

Unit- IV: Professional Associations
- Objectives of Agricultural Professional Associations
- Role of Professional Associations in promotion of Agricultural Research
- Professional Associations: National and International

LIS/III/T/23-EL.3 : Legal Information System

Unit- I: Information Services and Products
- Information Services to Law students, faculty and Research Scholars
- Special Information Services to Layers
- Services to Judges and other Legal professionals
- Dissemination methods and techniques Advanced Information Services and Products

Unit -II: Web based Legal Information
- Online Legal Information
- Digitization of Legal documents and Information Resources
- Web based Information Retrieval
- E-Court

Unit- III: Laws for Allied Fields
- Industrial Laws
- Environmental Laws
- Intellectual Property Laws
- Cyber Crimes and Cyber Laws

Unit -IV: Legal Information Systems and Networks
- Legal Information Systems in India: Structure and Services
- Legal Information Systems: International
- Resource sharing and Networks of Legal Information
LIS/III/T/23-EL.4 : Academic Library and Information System

Unit – I: Academic Libraries and their Development
  ▪ Objectives and Functions
  ▪ History and Development of Libraries with Special Reference to India
  ▪ Role of Libraries in Formal and Non-Formal Education System
  ▪ UGC and its Role in the Development of College and University Libraries

Unit – II: Collection Development and Management
  ▪ Periodicals, Conference Literature, Grey Literature and Government Publications
  ▪ Non-Book Materials
  ▪ Electronic Resources and Online Databases

Unit – III: Library Organization and Administration and Services
  ▪ Organizational Structure
  ▪ Staff Manual, Library Surveys, Statistics and Standards, etc.
  ▪ CAS, SDI, Abstracting and Indexing Services
  ▪ Library Bulletin, Newspaper Clipping Services
  ▪ Computerized Services
  ▪ Resource Sharing and Networking: INFLIBNET, UGC-INFONET Digital Library Consortium, etc.
  ▪ Information Literacy Programmes

Unit – IV: Financial and Human Resource Management
  ▪ Determination of Finance, Sources of Finance
  ▪ Types of Budget
  ▪ Nature, Size, Selection, Recruitment, Qualification and Training
  ▪ Responsibilities and Duties
  ▪ Competency Development
SEMESTER- III PRACTICE

LIS/III/P/24 : Information Technology Applications (Part I) Marks -100

- Information Searching from CD-ROM Databases and Retrieval: LISA – Novice, Advanced and Expert Search
- Automated Circulation Systems
- Creation of E-mail ID, Sending and receiving mails, File attachments

LIS/III/ P/ 25 Educational Tour Report, Survey of libraries and Information Centers (Mark -050)

- Students are required to prepare a report on working systems and management of visited libraries and information centers of a place (state/outside the state preferably of metropolitan city.)

LIS/III/ P/ 26: Internship (Marks – 050)

- Students are required to complete 30 working days internship any nearest academic library and submit their certificate to the institute.

LIS/III/P/27 : Project Seminar (Marks -050)

- Students should give pre presentation(PPT) and submit synopsis of Project work.
Foundation Paper – Only for other P.G. Department (Interdisciplinary) Students (Not for LIS Students)

LIS/III/T/28 : Fundamentals of Library Science

Unit-I : Concepts, Types and Role of Libraries
- Social and historical foundations of Library: Library as an institution and its evolution, Library as a socio and cultural institution.
- Types of Libraries: Features and functions of National, Public, Academic and Special Libraries
- Five Laws of Library Science and their implications.
- Role of Library: formal / informal education and Modern Society

Unit-II : Library Services and Books Delivery Act
- Library Extension Services
- Resource Sharing: Concept, Need, Purpose and Areas of resource sharing
- Delivery of Books and Newspapers Act, 1954 and 1956

Unit-III : Library Classification and Cataloguing
- Classification: Fundamental of Library Classification, Classification Schemes (DDC, CC and UDC)
- Library Cataloguing: Fundamental of Library cataloguing, types of Library Cataloguing, Kinds of Entries

Unit-IV : Library Profession, Professional Association and Development
- Library Profession: Attributes of a profession, Librarianship as a profession, Professional ethics and qualities, Professional education and research.
- Professional Association: Objectives, functions and activities of National and International Association (IFLA, ILA, IASLIC, SLA)
- History of Libraries, History of writing an printing material in India
- Growth and Development of Libraries in India
SEMESTER - IV
LIS/IV/T/29 : Information Systems and Networks

Unit I: Policies and Programmes
- National and International Policies on Library and Information Science: NAPLIS, UNESCO
- IT Policy and IT Act
- Right to Information and Intellectual Property Rights
- Right to Education
- Information Literacy Programmes

Unit II: Information Systems
- National Information Systems: NISSAT, BTIS, ENVIS, FOSTIS
- International Information Systems: UNISIST, INIS, AGRIS, BIOSIS, And MEDLARS

Unit III: Information Networks
- Growth and development of Library and Information Networks
- NICNET, ERNET, SIRNET
- INFLIBNET: Growth, Development and Services

Unit IV: Knowledge Management and Evaluation of Information Systems
- Information Management
- Knowledge Management
- Objectives of Evaluation
- Criteria for Evaluation
- Tools and Techniques

LIS/IV/T/30 : Management of ICU, Marketing, Information Agencies, Technical Writing

Unit-I: Management of Information consolidation Units (ICUs)
- Planning
- Resources, Manpower, Material
- Knowledge and Skill

Unit-II: Marketing of Information services and Products
- Concept of Marketing
- Marketing for Non-Profit Organization
- Market Analysis
- Pricing of Information Services and Products
- Marketing Tools

Unit-III: Information Agencies
- Information analysis Centers (IAC)
- Government and Non-Government Information Agencies: NISCAIR, NASSDOC,
- DESIDOC, SENDOC, PIS, CMIE etc

Unit-IV: Technical Writing and Editing
- Characteristic features of Technical Writing
- Editing and Editorial Process
- Publication Ethics
LIS/IV/T/31 : Computer Generated Indexes and Retrieval Techniques

Unit-I: Computer Generated Indexes
- Role of Computers in Generation of Indexes
- Manual Vs Computerized Indexes
- Computer Based Indexing System: KWIC, KWOC
- Citation Indexing

Unit-II: Search Processes
- Search Strategy: Concept and Steps
- Search Strategy in Various Indexing System
- Indexing System

Unit-III: Manual and Automated Search Process
- Offline and Online Information Retrieval Techniques
- Natural Language Processing and their Retrieval

Unit-IV: Evolution and Trends
- Evolution of Information Retrieval System
- Research in Information Retrieval System: Research Trends

LIS/IV/T/32- Digital Libraries
Unit-I: Digital Libraries
- Definitions, Concept
- Objectives and Scope
- Electronic Library: development and Services
- Digital Library: Growth, development and Services
- Virtual Libraries: development and Services

Unit-II: Organization of Digital Libraries
- Collection Development
- Image formats, Audio formats
- Storage Media Formats
- Institutional Repositories
- Digitization, Tools and Process
- Equipments: Scanners, Digital Camera

Unit-III: Building Digital Libraries
- Hardware and Software, OCR, Image Editing Software
- Open Source Software: Displace, e-print, Greenstone, Fedora
- Metadata: Definition, Types, Creation, Standards
- Preservation Technologies

Unit-IV: Intellectual Property Rights (IPR)
- IPR issues in Digitization
- Open Access, Copyright and Creative Commons
- Fair Use of digital information
- Plagiarism and Infringement
Elective Papers

LIS/IV/T/33-EL.1: Archival, Museums and Archaeological Information System

Unit –I: History , Development and Management of Archival and Manuscripts
- History and Development and types of Archival Centres
- Acquisition, Classification, Cataloguing and Indexing of Archival material
- Source material on Archival , Manuscripts
- Machine Readable and Microfilm of Archival records
- Database and Digitization of Archives
- Role of UNESCO and other agencies

Unit-II : Environment Control
- Building Design
- Planning and furniture and Fillings
- Use of Copy Right to information in relation to archives

Unit –III : Preservation of Archives
- Objective and Purpose
- Cause of Deterioration
- Environmental Pollution : Physical , Chemical and Atmospheric
- Biological enemies of materials : Mould , Fungi , Insect and Rodents

Unit-IV : Rehabilitation of Documents
- Cleaning, removal of Stains
- Repair and restoration techniques
- Lamination
- Standards for Storage Conditions

LIS/IV/T/33-EL.2: Bio-technology Information System

Unit I: Biotechnology Information Sources
- Documentary
- Non-Documentary
- Electronic Resources
- Biotechnology Databases

Unit II: Biotechnology Services and Products
- Information Services rendered to faculty and research scholars
- Web based Services Advanced Information Services and Products

Unit III: Biotechnology Information Centres
- Biotechnology Information Centres: National
- Biotechnology Information Centres: International

Unit IV: Biotechnology Information Systems and Networks
- Biotechnology and allied Information Systems in India – BTIS: Structure and Organization (Study of DICs and DISCs)
- Biotechnology Information Systems: International
- Biotechnology Networks in India (BTISNET and others)
- Biotechnology Networks: International
- Resource sharing in Biotechnology Information systems
LIS/IV/T/33-EL.3 : Engineering and Technological Library and Information System

Unit – I: Engineering and Technological Libraries and their Development
- Objectives and Functions
- History and Development of Libraries with Special Reference to India
- Role of Engineering and Technological Libraries
- Role of Agencies in the Growth and Development of Engineering and Technological Libraries in India

Unit – II: Collection Development and Management
- Periodicals, Conference Literature, Grey Literature, Patents, Standards, Specifications and Government Publications
- Non-Book Materials
- Electronic Resources and Online Databases

Unit – III: Library Organization and Administration and Services
- Organizational Structure
- Staff Manual, Library Surveys, Statistics and Standards, etc.
- CAS, SDI, Abstracting and Indexing Services
- Library Bulletin, Newspaper Clipping Services
- Computerized Services
- Resource Sharing and Networking:
  - INDEST – AICTE Consortium
  - Information Literacy Programmes

Unit – IV: Financial and Human Resource Management
- Determination of Finance, Sources of Finance
- Types of Budget
- Nature, Size, Selection, Recruitment, Qualification and Training
- Responsibilities and Duties
- Competency Development
LIS/IV/T/33-EL.4 : Public Library and Information System

Unit – I: Public Libraries and their Development
- Objectives and Functions
- History and Development of Libraries with Special Reference to India
- Role of Public Libraries in Society
- Agencies and their Role in Promotion and Development of Public Libraries in India

Unit – II: Collection Development and Management
- Periodicals, Conference Literature, Grey Literature and Government Publications
- Non-Book Materials
- Electronic Sources and Online Databases

Unit – III: Library Organization and Administration and Services
- Organizational Structure
- Staff Manual, Library Surveys, Statistics and Standards, etc.
- CAS, SDI, Abstracting and Indexing Services
- Library Bulletin, Newspaper Clipping Services
- Computerized Services
- Resource Sharing and Networking

Unit – IV: Financial and Human Resource Management
- Determination of Finance, Sources of Finance
- Types of Budget
- Nature, Size, Selection, Recruitment, Qualification and Training
- Responsibilities and Duties
- Competency Development
SEMESTER –IV PRACTICE

LIS/IV/P /34 : Information Technology Applications (Part II) Marks – 100

- Internet Searching from Websites – E-Books, E-Reference Sources, OCLC Database, Web
- OPAC, DOAJ, DOAR, DLIST, E-Print
- Social Networking Sites
- Evaluation of Library WebPages
- Creation of Weblogs
- Hands on Experience on any Digital Library Software
- Uploading of data in disciplinary archives Scanning and digitizing documents

LIS/IV/P/35 : Project Work Report (Marks 100) & Vivo Voce (Marks 050)

- Students should submit the Project Report and present for vivo voce
Foundation Paper – Only for other P.G. Department (Interdisciplinary) Students (Not for LIS Students)

LIS/IV/T/36 : Fundamentals of Information Science

Unit- I : Introduction of Information Science
- Concept, Definitions of Information, Information Science, Information Society
- Information Transfer Cycle- Generation, Collection, Storage and dissemination
- Role of Information in Planning, Management, Social-economic development, Technology transfer.

Unit –II : Reference and Information Sources
- Introduction to Reference /Information Sources : meaning, definition, nature, evolution, characteristics, functions, importance and criteria for evaluation,
- Type of information Sources : Primary, Secondary, Tertiary
- Non Print Sources : Offline and Online

Unit -III : Information Services
- Information Services : Definition, Scope, Need, and Functions
- Types of Information Services : Ready and Long Range Reference Services, Referral Services, Bibliographic Services, Translation Services, Indexing & Abstracting Services, Reprographic Services
- CAS/Alerting Services, SDI,
- On-line Reference/ Information Services

Unit – IV : Information Policy
- Right to Information Act
- Information Technology Act
- Copyright –Intellectual Property Rights and copyright in India
- National Information Policy
- National and International Information centres; NISCAIR, DESIDOC, NASSDOC, UNESCO, INIS, AGRIS
Books Recommended for Study

References for LIS/I/T/01, LIS/III/T/28 & LIS/IV/T/33-EL.4

Reference for LIS/I/T/02 & 03


References for LIS/II/T/10 & 11
7. Krishan Kumar, Library Administration.

References for LIS/I/T/04, LIS/II/T/12 & LIS/IV/T/29

Reference for LIS/I/T/05 & LIS/II/T/13


Reference for LIS/II/T/14


References for LIS/IV/T/36

Reference for LIS/III/T/19 & LIS/IV/T/30
References for III-LIS/III/T/20 & LIS/IV/T/31

References for LIS/III/T/21

References for LIS/III/T/22 & LIS/IV/T/32


References for III – LIS/IV/T/33-EL.1

Reference for LIS/III/T/23-EL.2
10. Ramtirth, Agris. Information System for Agricultural Science and Technology Improvement in
References for LIS/IV/T/33-EL.3 & LIS/IV/T/33-EL.2

17. Kalmegu, S. A study of websites of information systems in India. M.L.I.Sc project report RTM Nagpur University, Supervisor: Lihitkar S.
22. Motghare, M.P. Indian Council of Agricultural Research Institute Library Services of Internet. MLISc project report, RTM Nagpur University. Supervisor: Kapde.D.G.
28. Shewale, J.G. Biotechnology in Healthcare (No.6) National Institute of Science Communication
Reference for LIS/III/T/23- EL. 3 & 4

5. Lihitkar, Shalini, R. Information Systems and Networks in India, Today’s & Tomorrow: Printer & Publisher, New Delhi, 2012.

Reference for LIS/III/T/23-EL.1

8. Rakade S.M. Industrial information system(Marathi), Universal Publication, Nagpur.