

संत गाडगे बाबा अमरावती विद्यापीठ  
SANT GADGE BABA AMRAVATI UNIVERSITY

समाजविज्ञान विद्याशाखा  
(FACULTY OF SOCIAL SCIENCES)

अभ्यासक्रमिका  
ग्रंथालय व माहिती शास्त्र पारंगत, - २०१५

PROSPECTUS  
Of  
The Degree of Master of Library and  
Information Science - 2015



2014

(Price Rs. /-)

Published by  
**Dineshkumar Joshi**  
Registrar  
Sant Gadge Baba  
Amravati University,  
Amravati - 444 602

- 
- © 'या अभ्यास क्रमिकेतील (Prospectus) कोणताही भाग संत गाडगे बाबा अमरावती विद्यापीठाच्या पूर्वानुमती शिवाय कोणासही पुनर्मुद्रित किंवा प्रकाशित करता येणार नाही.'
- © "No part of this prospectus can be reprinted or published without specific permission of Sant Gadge Baba Amravati University."

# Master of Library & Information Science

## Index

Prospectus No. 20151821

Sr. No.	Paper No.	Subject	Page No.
1.		Special Note for Information of the Students	1 to 2
2.		Ordinance No. 1 of 2000	3 to 6
3.		Regulation No. 39 of 2003	6 to 7
4.		Ordinance No. 138	8 to 9
5.		Direction No. 9 of 2010 & 41 of 2010	10 to 13
		<b>Syllabus (1 to 16)</b>	
6.	I	Marketing of Library and Information Services, Products and Management Consultancy	1 to 3
7.	II	Information Communication	3 to 5
8.	III	Information Analysis, Repackaging and Consolidation	5 to 7
9.	IV	Library Networks and Digital Library	7 to 9
10.	V	Research Methods and Statistical Techniques	9 to 12
		<b>Elective</b>	
11.	VI(A)	Health Science Library and Information System	12 to 13
12.	VI(B)	Agricultural Library and Information System	13 to 15
13.	VI(C)	Engineering and Technological Library and Information System	15 to 16

\* \* \* \* \*

SANT GADGE BABA AMRAVATI UNIVERSITY  
**SPECIAL NOTE FOR INFORMATION OF THE STUDENTS**

(1) Notwithstanding anything to the contrary, it is notified for general information and guidance of all concerned that a person, who has passed the qualifying examination and is eligible for admission only to the corresponding next higher examination as an ex-student or an external candidate, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination in such subjects papers or combination of papers in which students from University Departments or Colleges are to be examined by the University.

(2) Be it known to all the students desirous to take examination/s for which this prospectus has been prescribed should, if found necessary for any other information regarding examinations etc., refer the University Ordinances Booklet the various conditions/ provisions pertaining to examinations as prescribed in the following Ordinances -

Ordinances No.1	: Enrolment of Students.
Ordinances No.2	: Admission of Students
Ordinances No.4	: National Cadet Corps
Ordinances No.6	: Examination in General (relevant extracts)
Ordinance No. 9	: Conduct of Examinations (Relevant Extracts)
Ordinance No. 18	: An Ordinance to provide grace Marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of Marks in a subject in all the faculties prescribed by the statute no. 18 Ordinance, 2001
Ordinance no.10	: Providing for Exemptions and Compartments.
Ordinance No.19	: Admission of Candidates to Degrees
Ordinance No.109	: Recording of a change of name of a University Student in the records of the University.
Ordinance No.138	: For improvement of Division.
Ordinance No.159	: Prescribed rules for Revaluation of Answer Books of Examinees at University Examinations.

**Dineshkumar Joshi**  
Registrar  
Sant Gadge Baba Amravati University.

**PATTERN OF QUESTION PAPER ON THE UNIT SYSTEM.**

The pattern of question paper as per unit system will be broadly based on the following pattern

- (1) Syllabus has been divided into units equal to the number of question to be answered in the paper. On each unit there will be a question either a long answer type or a short answer type.
- (2) Number of question will be in accordance with the unit prescribed in the syllabi for each paper i.e. there will be one question on each unit.
- (3) For every question long answer type or short answer type there will be an alternative choice from the same unit. However, there will be no internal choice in a question.
- (4) Division of marks between long answer and short answer type question will be in the ratio of 40 and 60
- (5) Each short answer type question shall contain 4 to 8 short sub question with no internal choice.

**% ORDINANCE NO. 1 OF 2000.****Examinations leading to the Degree of (ग्रंथालय व माहिती शास्त्र पारंगत) Master of Library and information Science.**

Whereas, it is expedient to prepare the Ordinance to provide for examinations leading to the Degree of Master of Library and Information Science in the Faculty of Social Sciences, the Management Council is hereby pleased to make the following Ordinance:

1. This Ordinance may be called Examinations leading to the Degree of Master of Library and Information Science Ordinance, 2000.
2. This Ordinance shall come into force with effect from the Academic session 1999-2000.
3. This examinations leading to the Degree of (ग्रंथालय व माहिती शास्त्र पारंगत) Master of Library & Information Science shall be held annually at such places and on such dates as may be appointed by the Board of Examinations.
4. Subject to his/her compliance with the provisions of this Ordinance and of any other Ordinances in forces from time to time an applicant for admission to this examination shall -
  - (i) Have been admitted to the (ग्रंथालय व माहिती शास्त्र पारंगत) Master of Library and Information Science Degree of the University.
  - (ii) Have since passing the examination of the Bachelor of Library and Information Science (ग्रंथालय व माहिती शास्त्र स्नातक) Degree of the University of any other Examination recognised as equivalent thereto, prosecuted a regular course of study, for the examination for not less than one academic year in the department of Library & Information Science or as affiliated College of the University.
5. Without prejudice to the other provisions of Ordinance No.6 relating to examinations in General, the provisions of paragraphs 5, 8, 10 & 31 of the said Ordinance shall apply to every collegiate candidate.
6. The fees for the examination shall be as prescribed by the University from time to time.
7. The examination leading to the Degree of Master of Library and Information Science shall consist of two parts namely Part-I & Part-II as under :-

---

% As amended Vide Ordinance No. 16/2003, 32/2005, 6/2007.

**PART-I (Theory)**

**Paper-I :** Fundamentals of Information Science.

**Paper-II :** Management of Libraries and Information Centres.

**Paper-III :** Information Control Techniques.

**Paper-IV :** Evaluation of Information Systems and Services.

**Paper-V :** System Analysis and Elements of Statistical Methods.

**Paper-VI :** Computer Applications in Library and Information Work.

**PART-II (Practical)****1. Information Technology : Application**

- (I) Libsys/Slim/Soul.
- (II) E-Mail
- (III) CD-ROM, Online Searching.
- (IV) Internet Searching.
- (V) Scanning and Conversion of Text into Meta document.

**2. Project Work:**

- (a) Project Work
- (b) Viva-Voce.

8. The maximum marks allotted to each subject, paper, practical, and Viva-Voce Examinations and the minimum marks which an examinee must obtain in order to pass the examination shall be as indicated in Appendix-A for the Master of Library and Information Science Examination.

The marks which is part and paper shall carry and the marks which an examinee admitted in the Academic session 2003-04 must obtain in order to pass the examination. shall be as indicated in the appendix appended with the regulation relating to this examination.

9. The Scope of the subjects shall be as indicated in the syllabus.
10. The examinees shall submit their dissertation within 15 days after the theory examinations.
11. The medium of instruction shall be English and the question paper shall be set in English.
12. An examinee at the examination shall have the option of not being declared successful at the examination in case he/she does not secure a minimum of Higher Second Division marks (55 %) at the examination. The option shall be exercised every time, an application is to be submitted for the examination. Once exercised,

the option shall be binding upon the examinee and shall not be revoked under any circumstances.

13. Successful examinees obtaining 60% or more marks at the examination shall be placed in the First Division, those obtaining less than 60% but not less than 50% shall be placed in the Second Division, and all other successful examinees in the Third Division.
14. Provision of Ordinance No. 18 of 2001 in respect of an Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute No. 18 Ordinance 2001 shall apply to the examinations under this Ordinance.
15. An Examinee who either does not pass or fail to present himself at the examination shall be eligible to appear at any subsequent examination without prosecuting a regular course of study.
16.
  - (i) An examinee failing in the examination but obtaining not less than 40% of the marks in a subject at the Part-I examination may at his option, be exempted from appearing at a subsequent examination in that subject.
  - (ii) Examinees securing 50% or more marks in part-II of the examination shall be exempted from appearing in that part at a subsequent examination.
  - (iii) An Examinee passing the examination by availing of the exemption shall not be entitled for a place in the Merit List, and not for any award. The Final marks list issued to such an examinee shall indicate that he has passed the examination by availing of the exemption.
17. As soon as possible after the examination, the University shall declare the result of the examination and publish a list of successful examinees within the time latest 45 days from the Examination.
18. The names of the examinees passing the examination in the minimum prescribed period and obtaining the prescribed number of places in the First, Higher Second or Second Division, shall be arranged in Order of Merit as provided in the Examinations in General Ordinance No.6.
19. Notwithstanding anything to the contrary in this Ordinance, no person shall be admitted to this examination, if he has already passed this examination or an equivalent examination of any other Statutory University.
20. Successful examinees shall on payment of the prescribed fees receives a Degree in the prescribed form, signed by the Vice-Chancellor.

21. The provisions of Ordinance No. 138 relating to improvement of Division shall apply as it is.
22. On enforcement of the ordinance from the academic session 1999-2000 the ordinance No. 3 of 1993 shall stand repealed.

\*\*\*\*\*

### **\* Regulation No. 39 of 2003**

#### **Examination leading to the degree of (ग्रंथालय व माहिती शास्त्र पारंगत ) Master of Library and Information Science) regulation 2003**

Whereas it is expedient to make Regulation in respect of Examination leading to the Degree of ( ग्रंथालय व माहिती शास्त्र पारंगत ) Master of Library and Information Science) regulation 2003, for the purposes hereinafter appearing, the Management Council is hereby pleased to approve the following Regulation.

1. This regulation may be called "Examination Leading to the Degree of ( ग्रंथालय व माहिती शास्त्र पारंगत ) Master of Library and Information Science Regulation 2003.
2. This regulation shall come in to force from the date of its approval by the Management Council.
3. Schemes of examination for the Examination leading to the degree of (ग्रंथालय व माहिती शास्त्र पारंगत ) Master of Library and Information Science shall be as shown in Appendix -A appended with this regulation.

#### **\*Amended Vide Regulation No. 9/2007**

---

## APPENDIX – A

**Examination Leading to the Degree of**  
**(ग्रंथालय व माहितीशास्त्र पारंगत)**  
**Master of Library and Information Science**

Paper	Subject	Maximum Marks	Minimum Passing Marks in each paper	Minimum passing Marks in the aggregate
<b>Part-I : Theory</b>				
<b>Paper-I</b>	Management of Libraries and Information Centres	100	40	
<b>Paper-II</b>	Information and Communication	100	40	
<b>Paper-III</b>	Information Analysis, Repackaging & Consolidation.	100	40	
				240
<b>Paper-IV</b>	Information Retrieval	100	40	
<b>Paper-V</b>	Research Methods & Statistical Techniques.	100	40	
<b>Paper-VI</b>	Information Technology : Application.	100	40	
<b>Total :</b>		600		240
<b>Part II: (Practical)</b>				
<b>1.</b>	<b>Information Technology : Application</b>			
		50	25	25
	Unit-1. Libsys/Slim/Soul			
	Unit-2. E-Mail			
	Unit-3. CD-ROM, Online Searching			
	Unit-4. Internet Searching			
	Unit-5. Scanning and conversion of Text into meta documents.			
<b>2.</b>	<b>Project Work</b>			
	(a) Project Work	100	50	75
	(b) Viva-Voce	50	25	
<b>Total :</b>		200		100
<b>Total of part-I &amp; II</b>		800		340

## AMRAVATI UNIVERSITY

## \*ORDINANCE No.138

## For Improvement of Division /Grade

- Notwithstanding anything contained in the relevant Ordinance, a person who has passed the M.A. /M.Com. /M.Sc. /M.Lib. & I.Sc./ M.P.Ed. /LL.M.Examination of the Amravati University in Third Division or who do not have Higher Second Class (B+)at the said qualifying examination shall be eligible to take the examination in the same subject or Group of subjects ,as the case may be, again for improving his division as hereinafter provided.
- A person eligible to take the examination under these provisions shall-
  - take the Part-I and Part-II(and Part-III where applicable) but shall not be eligible to take the Part-II (or Part-III where applicable) Examination unless he is declared successful at the lower examination;
  - no person shall be eligible to take the higher examination unless at least one academic year is elapsed after passing the qualifying examination;
  - be examined according to the scheme of examination and syllabi prescribed for the year in which he takes the examination. He shall not be entitled to any concessions in respect of the syllabi or scheme of Examinations.
  - be examined in all the papers prescribed for the Part-I/Part-II (and Part-III Where applicable) Examinations;

Note- In case of examination in a subject which includes practical examination, the applicant shall have attended a full course of instruction in Practicals in that subject in a College/Department admitted to the privileges of the University. He will not be admitted to the examination unless he produces a certificate from the Principal/Head of the Department that the applicant has attended the full course of laboratory instruction in that subject :

---

\* As made by the Executive Council Dated 15/16-2-77, item No. 3/- Ac 39, to be effective from the Part-I Examination of March/April, 1978. Further amended by Ordinance No.5 of 1983, and 4 of 1997 Executive Council Dated 4/5-1983, 10/1999, 14/2004.

e) be entitled for award of the division on the basis of the fresh marks obtained by him at Part-I and Part-II (and Part-III where applicable) Examinations taken together, but shall not be entitled to a place in Merit List or for any award or medal or Scholarship on the basis of his Performance at these examinations nor shall be entitled to take advantage of the provisions of Ordinance No.7-A relating to Condonation of Deficiency or of provisions of Ordinance No.10 relating to award of exemptions and compartments :

f) Pass the entire examination within 5 years from the date he first applies for re- admission to the Part-I Examination. No further chances will be given to him.

g) Submit to the University alongwith his application for Part-I Examination his marks - list at the Part-I and Part-II (and Part-III where applicable) Examinations as also the original degree awarded to him at the previous examination.

h) be eligible for a fresh marks- list and fresh degree if he improves his division on passing these examinations and such a fresh degree shall specifically mention.

“ Under the provisions of Ordinance No.138 for Improvement of Division Grade” and on award of a fresh degree under this scheme his previous mark-list and degree shall be treated as cancelled. If, however, he fails to improve his division/grade his original degree and the mark-list shall be returned to him;

i) give an undertaking while applying for admission to the Part-I Examination under these provisions, that he has not previously taken advantage of these provisions.

j) Such candidates shall be treated as External Candidates.

\*\*\*\*\*

## DIRECTION

No.: 9 /2010

Date: 05/05/2010

**Subject : Examination leading to the Degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science.**

Whereas, the Ordinance for the Examination leading to the Degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science, Ordinance, 2000 i.e. Ordinance No. 1 of 2000 is in existence.

**AND**

Whereas, the Regulation for the Examination leading to the Degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science, Regulation, 2003 i.e. Regulation No. 39 of 2003 is in existence.

**AND**

Whereas, the Academic Council in its meeting held on 20.2.2010 vide item No.16(3) G)R-I has resolved to accept the revised scheme of examination for the degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science.

**AND**

Whereas, the New Scheme of Examination is to be implemented from the Academic Session 2010-2011.

**AND**

Whereas the Academic Council in its meeting held on 20.2.2010 has also resolved to refer the matter to the Ordinance Committee for amending the respective Ordinance and Regulation.

**AND**

Whereas, making amendments in the respective Ordinance and Regulation is time consuming process.

**AND**

Whereas, the Scheme of Examination & Syllabi are to be made available for the Academic Session 2010-2011.

Now therefore, I, Dr. Kamal Singh, Vice-Chancellor. Sant Gadge Baba Amravati University in exercise of the powers conferred upon me under Sub-Section (8) of Section 14 of Maharashtra Universities Act, 1994, do hereby direct as under :-

1. This Direction may be called, "Examination leading to the degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science, Direction, 2010".
2. This direction shall come into force from the Academic Session 2010-2011.
3. The new scheme of examination for Master of Library and Information Science course shall be provided under Appendix-A, appended with this direction.

Date: 3 /05/2010

Sd/-

(Kamal Singh)  
Vice-Chancellor

Sant Gadge Baba Amravati University



**APPENDIX-A**  
**Examination Leading to the Degree of**  
**Master of Library and Information Science (MLISc.)**

<b>Paper No.</b>	<b>Subject</b>	<b>Maximum Marks</b>	<b>Minimum pass marks in each paper</b>	<b>Minimum pass marks in the aggregate</b>
<b>PART- I (THEORY)</b>				
I	Marketing of Library and Information Services, Products and Management Consultancy	100	40	<b>240</b>
II	Information Communication	100	40	
III	Information Analysis, Repackaging and Consolidation	100	40	
IV	Library Networks and Digital Library	100	40	
V	Research Methods and Statistical Techniques	100	40	
<b>ELECTIVE PAPERS</b>				
VI (A)	*Health Science Library and Information System	100	40	
VI (B)	* Agricultural Library and Information System	100	40	
VI (C)	* Engineering and Technological Library and Information System	100	40	
<b>TOTAL</b>		<b>600</b>		<b>240</b>
<b>PART- II (PRACTICE)</b>				
1	Library Networks and Digital Library	50	25	<b>25</b>
2	Project Work:			
	(a) Project Work	100	50	
	(b) Viva-Voce	50	25	<b>75</b>
<b>TOTAL</b>		<b>200</b>		<b>100</b>
<b>TOTAL of Part-I &amp; II</b>		<b>800</b>		<b>340</b>

Note: \* For Elective Papers

1. The theory part shall consist of SIX theory papers including ONE elective paper out of three elective papers
2. THREE elective papers { VI (A), VI (B) and VI(C) } have been given in the syllabus.
3. Students need to offer any ONE elective paper out of THREE elective papers.
4. The Department of Library and Information Science, Sant Gadge Baba Amravati University, Amravati and its affiliated Colleges running this course, may offer either ONE or more than ONE elective papers to the MLISc. students depending upon the available expertise, resources etc.
5. Minimum number of students for each elective paper should not be less than FIVE STUDENTS.

\*\*\*\*\*

**DIRECTION**

No. : 41 /2010

Date : 1/07/2010

**Subject : Examination leading to the Degree of** (ग्रंथालय व माहितीशास्त्र पारंगत)  
**Master of Library and Information Science.**

Whereas, the Ordinance for the Examination leading to the Degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science, Ordinance, 2000 i.e. Ordinance No. 1 of 2000 is in existence.

**AND**

Whereas, the Academic Council in its meeting held on 20.2.2010 vide item No. 16(3) G)R-1 has resolved to accept the revised scheme of examination for the degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science.

**AND**

Whereas, the New Scheme of Examination is to be implemented from the Academic Session 2010-2011.

**AND**

Whereas the Academic Council in its meeting held on 20.2.2010 has also resolved to refer the matter to the Ordinance Committee for amending the respective Ordinance and Regulation.

**AND**

Whereas, making amendments in the respective Ordinance is time consuming process.

**AND**

Whereas, the Scheme of Examination & Syllabi are to be made available for the Academic Session 2010-2011.

Now therefore, I, Dr. Kamal Singh, Vice-Chancellor, Sant Gadge Baba Amravati University in exercise of the powers conferred upon me under Sub-Section (8) of Section 14 of Maharashtra Universities Act, 1994, do hereby direct as under :-



1. This Direction may be called, "Examination leading to the degree of (ग्रंथालय व माहितीशास्त्र पारंगत) Master of Library and Information Science, Direction, 2010".
2. This direction shall come into force from the Academic Session 2010-2011.
3. Part-I(Theory)& Part-II (Practical) for Master of Library and Information Science provided under para 7 shall be as given below :-

#### **Part-I (Theory)**

<b>Paper-I</b>	Marketing of Library and Information Services, Products and Management Consultancy
<b>Paper-II</b>	Information Communication.
<b>Paper-III</b>	Informajtion Analysis, Repackaging and Consolidation
<b>Paper-IV</b>	Library Networks and Digital Library
<b>Paper-V</b>	Research Methods and Statistical Techniques.

#### **Elective Papers**

<b>Paper-VI(A)</b>	*Health Science Library and Information System
<b>Paper-VI(B)</b>	*Agricultural Library and Information System
<b>Paper-VI(C)</b>	*Engineering and Technological Library and Information System

#### **Part-II (Practical)**

1. Library Networks and Digital Library
2. Project Work :
  - (a) Project Work
  - (b) Viva-Voce.

Date : /06/2010

Sd/-  
(Kamal Singh)  
Vice-Chancellor  
Sant Gadge Baba Amravati University

## **Syllabus Prescribed for Master of Library and Information Science (MLISc.) (Effective from 2010-2011 Session)**

### **Paper-I**

#### **Marketing of Library and Information Services, Products and Management Consultancy**

<b>Unit-I :-</b>	<b>Management, Styles and Approaches</b> Management: Concept, Definition and Scope. Management Styles: Management by Objective (MBO), Management by Organizational Development (MBOD), and Management by Exception (MBE) etc. Management Approaches: Behavioural Approach, Mathematical Approach, Formalistic Approach, and Participative School <b>School of Thoughts:</b> Classical School, Scientific Management School, Human Behavior and Motivation School, Decision Theory School
<b>Unit-II :-</b>	<b>Marketing of Library and Information Services and Products</b> Marketing Management, Strategic Planning and the Marketing Process, Market Environment, Market Research and Market Trend, Marketing Services, Organizations Persons, Places and Ideas Marketing Ethics, Marketing Management and Librarianship: Past, Present and Future.
<b>Unit-III :-</b>	<b>Management Consultancy</b> Definition of Consultancy, Concept Professional Consultancy: Concept and Evolution, Areas of Application, Need, Pre-requisites, Provision, Impact on Librarianship and Library Information Center
<b>Unit-IV :-</b>	<b>System Analysis and Design</b> <b>System Approach:</b> Concept, System Analysis, Library as a system System Design: System Design Process, Project Management, PERT/CPM Time and Motion Study: Time Management, Work Study, Work Measurement, SWOT Analysis Total Quality Management: Definition, Concepts and Elements
<b>Unit-V :-</b>	<b>Organization Effectiveness and Change</b> Organizational Effectiveness: Concept and Need Organizational Change: Concept and Need

Effectiveness and Development Skills of Change Agent  
Organization Climate and Culture  
Management of Change: Concept, Methods, Tools and  
Techniques

**References Recommended:**

1. Anderson, A. H. and Barker D. Effective Enterprise and Change Management Oxford: Blackwell Publisher Limited, 1996.
2. Aswathappa, K. Human Resources and Personnel Management. New Delhi: Tata McGraw- Hill, 1997.
3. Baker, David. The Strategic Management of Technology: A guide for Library and Information Services. Oxford (UK): Chandos Publishing, 2004.
4. Drucker, Peter F. The Practice of Management, New York: Holt, Rienchart and Winston, 1958.
5. Evans, Edward G. Management Techniques for Librarians. 2<sup>nd</sup> Ed. New York: Academic Press, 1982.
6. Fayol, Henri, General and Industrial Management. Tr. By Constance Stores. London: Pitman, 1949.
7. FitzGerald, J and Fitz Gerald, Ardra F. Fundamentals of System Analysis. 3<sup>rd</sup> Ed. New York: John Wiley, 1987.
8. French, W. E. and Bell, C. H. Organizational Development. New Delhi: Prentice-Hall of India, 1995.
9. Gupta, D. K. and Jambhekar, Ashok (Ed.). An Integrated Approach to Services Marketing: A book of reading on making of Library and Information Services. Mumbai: Allied Publication, 2003.
10. Hayes, R. M. Strategic Management for Academic Libraries: A Handbook. Westport: Greenwood, 1993.
11. Holloway, J. (ed.) Performance Measurement and Evaluation. New Delhi: Sage, 1995.
12. Koontz, H. and Weithric, H. Essentials of Management. 5<sup>th</sup> Ed. New Delhi: Tata McGraw-Hill Publishing Co. Limited, 1998.
13. Kumar, P.S.G. Management of Library and Information Centers. New Delhi: B. R. Publication, 2003.
14. Lahiri, R. Management of Libraries of Libraries Concepts and Practices. New Delhi: Ess-Ess Publication, 1996.
15. Lawes, Ann. Management Skills for the Information Manager. London: Ashgate Pub, 1993.
16. Luthans, F. Organizational Behaviour. 7<sup>th</sup> Ed., New York: McGraw-Hill, 1995.
17. Mendonca, M. and Kanungo, R. N. Work Motivation. New Delhi: Sage, 1994.
18. **Mishra, K. C. 21<sup>st</sup> Century Library Management. New Delhi: Ess-Ess Pub., 2004.**

19. Mittal, R. L. Library Administration: Theory and Practice. New Delhi: Metropolitan Book Company, 1996.
20. Narayanan, G. J. Library Management and Information Management. New Delhi: Printice Hall of India, 1991.
21. Pawar, B. S. and Vyas, S. D. Library Management. New Delhi: B. R. Publishing Corporation, 1986.
22. Prytherch, Ray. Gower Handbook of Library and Information Management. Aldershot: Gower, 1998.
23. Robbins, S. P. Organizational Behaviour 7<sup>th</sup> Ed. New Delhi: Prentice Hall of India, 1996.
24. Vasisth, N. Students' Guide to Management. New Delhi: Taxmann, 2002.
25. Wadhawa, R. K. Management Information System and Corporate Communications. New Delhi: Kanishka Publishers, 1998.
26. White, Herbert S. Library Personnel Management. New York: Knowledge Indus Publication, 1985.
27. Woodal, Jack Rebuck, Debrorah, K. and Vochl, Frank. Total Quality in Information Systems and Technology. New Delhi: Vanity Books, 1998.

\*\*\*\*

**Paper-II**

**Information Communication**

**Unit-I :-**

**Information Communication**

Information; Characteristics, Transfer Chain, Nature, Value and Use Conceptual difference between Data, Information and knowledge  
Information Communication and Information generation  
Information Communion Theories  
Information Communication Channels, Models and Barriers  
Trends in Scientific Communication  
Agencies promoting Communication of Information

**Unit-II :-**

**Information Management**

Concept, Scope and Nature of Information Management  
Steps in Information Management  
Economics of Information: Concept and Need  
Cost Effectiveness and Cost Benefit, Value of Information  
Cost Benefit Evaluation

**Unit-III:-**

**Knowledge Management**

Concept and Need of Knowledge Management  
Types of Knowledge: Tacit and Explicit  
Tools and Techniques of Knowledge Management  
Knowledge Life Cycle: Acquisition, Sharing and Reuse/

Utilization

Challenges to Knowledge Management

**Unit-IV:- Information Programmes, Policies and Acts**

**National Information Policy:** Concept, Need and Guidelines, National and International Policy Issues.

National Information System (NATIS): Concept and Need.

Universal Availability of Publication (UAP)

**Intellectual Property Rights :** WIPO and WIPONET

Right to Information, Freedom of Information, Censorship, Data Security and Fair Use.

**Unit-V:- Information System and Information Unit**

National & International Information System: NISSAT, NASSDOC, NISCAIR, DESIDOC, INIS, AGRIS, INSPEC.

Library Databases: MEDLARS, DIALOG etc.

**Information Unit :** Aims and Objective, Types and Need of Information Unit, Information Center: Clearing House, Data Centers and Data Banks, Liaison Services, Information Analysis Center, Referral Service Center, Information Call Center.

**References Recommended:**

1. Ahuja, B. N. and Chhabra, S. S. Communications. New Delhi: Surjeet Publication, 1989.
2. Babu, B. Ramesh and et.al. Information Management: Trends and Issues. New Delhi: Researchco Book Centre, 2003.
3. Babu, B. Ramesh and Gopalakrishnan (Ed.) Knowledge Management: Today and Tomorrow. New Delhi: Ess-Ess Publication, 2003.
4. Babu, B. Ramesh and Gopalakrishnan, S. (Ed). Information Communication, Library and Community Development. New Delhi: B. R. Publishing Corporation, 2004.
5. Jain, A. K. Bhatia, Pravin S. R. and Sheikh, A. M. Professional Communication Skills. New Delhi: S. Chand and Company, 2001.
6. Kamala, Vijayan D. and et.al. (Ed). International Conference on Information Management in a Knowledge Society. Vol.-I. New Delhi: Allied Publishers, 2005.
7. Kamalavijayan, D. Information and Knowledge Management. New Delhi: Macmillan India Limited, 2005.
8. Kumar, P.S.G. Fundamental of Information Science. New Delhi: S. Chand and Company, 1998.
9. Kumar, P.S.G. Information and Communication. New Delhi: B. R. Publication, 2004.
10. Sahib, Singh. Library and Literacy Movement for National

Development. New Delhi: Concept Publishing Company, 2003.

11. Toffer, Alvin. The Power Shift: Knowledge wealth and violence at the Edge of the 21<sup>st</sup> Century, New York: Bantam House, 1991.

12. Vickery, B. C. and Vickery, A. Information Science in Theory and Practice. London: Butterworth, 1987.

\*\*\*\*\*

**Paper-III**

**Information Analysis, Repackaging and Consolidation**

**Unit-I:- Information Storage and Retrieval**

Concepts, Objectives, Functions and Components of Information Storage and Retrieval

Content Analysis and representation of documents

Document Description: Principles and Practice

Standards for bibliographic description at National and International level, Current Trends in Standardization and Exchange

Trends in Information Retrieval Models

**Unit-II:- Computer Generated Indexes and Retrieval Techniques**

Role of Computers in Generation of Indexes

Computer Based Indexing System (KWIC, KWOC etc.)

Citation Indexing, Search Process, Search strategies in various Indexing Systems

**Retrieval Techniques :** Offline and Online

**Unit-III:- Information Repackaging**

Concept and Need of Repackaging, Repackaging and Formatting

Agencies dealing with Repackaging of Information, CAPS

**Bibliographical Control :** Concept and Historical Development

National and Universal Bibliographical Control

Bibliography of Non-documentary sources

**Unit-IV:- Information Consolidation**

Definition and Concept of Information Consolidation

Objectives and Need of Information consolidation

Methods of Information Consolidation

Pre-requisites and Stages/Steps in the Preparation of Information consolidation, Tools for Consolidation

**Unit-V:- Information Consolidation Products (ICP)**

Nature of Information Consolidation Product

Design and Development of ICP

Types of Information Consolidation Product: User Manual, Indexes, Bibliographies, Union Catalogues, Abstracts,

Library Bulletin, Trend Report, State of Art etc  
Thesaurus: Purpose, Function and Structure  
Steps in construction of Thesaurus  
Thesaurofacet and Classarus

### Recommended Books:

1. Bhattacharya, G. DRTC Annual Seminar on IASLIC: A Review. (DTRC Annual Seminar. 18, 1981; paper IA.)
2. Brandreth, M. Specialized Information/Analysis centre in International development: Report of a meeting held at Montebello, Quebec, Canada 4-8, October, 1982. 12DC Manuscript series. March, 1984.
3. Bryson, J. O. Effective Library and Information Centre Management. USA: Gower Publishing Company, 1980.
4. Chandra, A. and Saxena, P. Style Manual for writing thesis, dissertations and papers in social science. New Delhi: Metropolitan, 1979.
5. Dinesh, E. and Ramachandran, M. Organization and set up of an Information Analysis Centres. DTRC Annual Seminar 18, 1981. Paper HB.
6. Ellis, D. New Horizons in Information Retrieval. London: Library Association, 1990.
7. Fosket, A.C. Subject Approaches to Information. 3<sup>rd</sup> ed. London: Clive Bingley, 1977.
8. Gopinath, M. A. Preparation of an Index to a book: A Case Study Library Science with a Slant Documentation, 1967, Paper E.
9. Gopinath, M. A. Typology of structural relations for Information Analysis and consolidation products, feedback and evaluation: a case study. DTRC Annual seminar. 18; 1981. Paper EA.
10. Kumar, P.S.G. Information Analysis, Repackaging, Consolidation and Information Retrieval. New Delhi: B. R. Publishing, 2004.
11. Lancaster, F. W. Vocabulary Control for Information Retrieval. New York: Information Resources Press, 1972.
12. Matcalfe, J. R. Organization of ICU: Centralized or decentralized Information analysis and consolidation; who page (paper presented at the third meeting of UNISIST working group on information analysis and consolidation. Kuala Lumpur 12-16 Sep 1983).
13. Narayana, G. J. Library and Information Management. New Delhi: Prentice Hall India, Pvt. Ltd. 1991.
14. Saracevic, T. and Wood, J. S. Consolidation of Information: A hand book of evaluation restructuring and repackaging of scientific and technical information. Paris: UNESCO, 1981.
15. Seetharama, S. Costing of Information System and services: Some

- General Considerations. DRTC Annual Seminar 24, 1990. Paper B.
16. Seetharama, S. Evaluation measures in information retrieval system IASLIC conference 1992.
  17. Seetharama, S. Guidelines for Planning of Libraries and Information Centers. Calcutta: IASLIC, 1990.
  18. Seetharama, S. Information Consolidation and Repackaging: Framework, Methodology, Planning. New Delhi: Ess-Ess Publications, 1997.
  19. Seetharama, S. Libraries and Information Centers as Profit Making Institutions. New Delhi: Ess-Ess Publications, 1998.
  20. Raju, A. A. N. and Ramaiah, L. S. National Bibliographical Control: Problems and Perspectives. Allied Publishers, 2003.

\*\*\*\*\*

### Paper- IV

#### Library Networks and Digital Library

##### Unit-I :-

##### Library Networks

**Library Networks:** Concept and Definition, Aims and Objective of Library Network, Uses of Library Network, Pre-requisites for Network Organization

Types of Networks and Services-DELNET, INFLIBNET, BONET, ERNET, NICNET, JANET, BLAISE, OCLC

##### Unit II :-

##### Digital Library

**Digital Library:** Genesis, Definition, Objectives, Scope Electronic Library, Digital Library and Virtual Library Pre-requisites for building of Digital Library: Digitization-devices (Scanners, Cameras etc), Digitization Software, Digitization Process, Challenges.

Collection Development (e-Books, e-Journals etc.), Organization and Preservation of Digital Material, Data Warehousing and Data Mining

**Metadata:** Nature, Standards (Dublin Core)

##### Unit III :-

##### Resource Sharing and Consortia

Concept and Needs, Modern Trends in Resource Sharing Consortia: Concept, Definitions, Benefits and Limitations Types of Consortia, International Initiatives – FORSAA Indian Initiatives – UGC-Infonet, J-Gate, INDEST, CSIR e-journal consortium

##### Unit IV:-

##### Digital Rights Management

Digital Rights Management: Concept and Need

**Copyright Issue:** Copyright in India, Copyright Infringement, Digital Copyright, Digital Millennium Copyright Act Cyber Crimes and Cyber Laws



**Unit V:- Library Web Page Designing**  
 Website Designing  
 Website Designing Languages-HTML  
 Contents of Library Web page  
 Website Evaluation Criteria

**Recommended Books:**

1. Ackermann, F. and Hartman, K. The Information Specialist's guide to Searching and Researching on the Internet and the World Wide Web. Chicago: Fitzroy Dearborn Publishers, 1999.
2. Ali, Amjad. Digital Libraries and Information Networks. New Delhi: Ess-Ess Publication, 2007.
3. Arms, William Y. Digital Libraries. Rev. Ed. Ane Books, 2005.
4. Asok Babu and Ramaiah, L S. Developing Cyber Libraries. New Delhi: Allied Publisher, 2006.
5. Baker, David. The Strategic Management of Technology: A guide for Library and Information Services, Oxford (UK): Chandos Publishing, 2004.
6. Bavakutty, M., Veeran, M. K. and Muhammed Salih, T. K. (Ed). Information: Access, Management and Exchange in the Technological Age. New Delhi: Ess-Ess Publication, 2003.
7. Bhatnagar, S. C. and Ramani, K. U. Computers and Information Management: A Printer for Practicing Managers. New Delhi: Prentice Hall of India, 1989.
8. Bradeley, P. And Smith, A. World Wide Web: How to design and Construct home pages. London: ASLIB, 1996.
9. Chaudhary, G. G. Introduction to Digital Libraries. London: Facet, 2003.
10. Chaudhary, G. G. Text Retrieval System in Information Management. New Delhi: New Age International, 1996.
11. D'Souza, Monica and D'Souza, Jude. Web Publishing, New Delhi: Tata McGraw –Hill Company Limited, 2001.
12. Godia, Kundan. Electronic Services in Library and Information Services. New Delhi: Adhyayan Publishers and Distributors, 2007.
13. Gopinath, M. A. and Reddy, E. Rama. Information Access through Networks. Hyderabad: Book links Corporation, 1996.
14. Hirwade, Mangala and Hirwade, Anil. Fundamentals of Intellectual Property Rights. Nagpur: Himalaya Publications, 2007.
15. Horak, Ray. Communication Systems and Networks. 2<sup>nd</sup> Ed. New Delhi: IDG, 2000.
16. Kumar, P. S. G. Computerization of Indian Libraries. New Delhi: B. R. Publishing, 1987.
17. Leon, A. and Leon, M. Fundamentals of Information Technology. Chennai: Lion Tech World, 1999.

18. Malwad, N. M. and et. al (Ed). Digital Libraries: Dynamic Storehouse of digitized Information. New Delhi: New Age International, 1996.
19. Murthy, S. S., Ravi, Anuradha and Moorthy, A. Lakshmana (Ed.) Bibliographic Databases and Networks. New Delhi: Tata McGraw-Hill Publishing Company, 1989.
20. Naik, Dilip C. Internet Standards and Protocols. New Delhi: Prentice Hall India Limited, 2001.
21. Parthan, S. and Jeevan, V. K. J. Information Management in E-Libraries. New Delhi: Allied Publisher, 2002.
22. Pedley. Digital Copyright. 2<sup>nd</sup> Ed. London: Facet, 2005.
23. Rao, N. Laxman. Responding to users' need in changing Information Landscapes: Journey of Libraries from Palm-Leaf to Palmtop. New Delhi: Indian Library Association, 2004.
24. Ravichandra Rao, I. K. Library Automation. New Delhi: Wiley Eastern, 1993.
25. Saffady, W. Introduction to Automation for Librarians, 3<sup>rd</sup> Ed. London: American Library Association, 1994.
26. Satarkar, S. P. Intellectual Property Rights and copyright matters. Nanded: Swapnil Mudranalaya, 2002.
27. Singh, Pravin C. Digital Libraries Tools and Techniques. New Delhi: Alfa Publications, 2008.
28. Sinha, Kamala. Access to Information Technology in Modern Libraries. Delhi: Vista International Publishing House, 2005.
29. Sinha, Kamala. Changing role of Digital Librarian. Delhi: Vista International Publishing House, 2007.
30. Thomas, R. And Yeats, J. A. User's guide to the Unix System. 2<sup>nd</sup> Ed. New Delhi: Tata McGraw-Hill, 1995.
31. Vengan, R., Mohan, H. R. and Raghavan, K. S. Information Services in a Networked environment in India. Ahmadabad: INFLIBNET Centre, 2000.
32. Ramaiah, L. S. E-libraries: Problems and perspectives (Festschrift in honour of shri Ashok Babu tummala). New Delhi: Allied Publisher, 2007.
33. Sirurmah, Sangayya S. Electronic Libraries (Prof. P Sadasivamurthy Festschrift). New Delhi: Allied Publisher, 2002.

\*\*\*\*\*

**Paper-V**

**Research Methods and Statistical Techniques**

**Unit I:-**

**Research**

Concept, Need and Characteristics of Research, Process of Research  
 Types of Research-Fundamental and Applied including

Interdisciplinary and Multidisciplinary Approach, Research and Development of Scholarship, Financial Support for Research,

**Research in Librarianship:** Need, Nature and History, Areas of Research in LIS, Current Trends in LIS Research

**Unit II:- Research Design**

**Research Problem:** Identification and Formulation of Research Problem, Selection of Research Problem, Components and Types of Research Problem

**Research Design:** Steps in Research Design, Types of Research Design, and Characteristics of a Good Research Design

**Hypothesis:** Need, Purpose and Characteristics, Types of Hypothesis

**Literature Search:** Print, Non-Print, Online and Electronics Sources

**Unit III:- Research Methods, Techniques and Tools**

**Research Methods:** Scientific Methods, Historical Methods, Descriptive Methods, Survey Methods and Case Study Methods, Experimental Method and Delphi Method

**Research Techniques and Tools:** Data Collection Techniques: Primary and Secondary, Census Method and Sampling Method

**Data Collection Tools:** Questionnaire, Schedules, Interview, Observation Scales, Check Lists, Library Records and Reports

**Unit IV:- Data analysis, Interpretation and Report Writing**

**Descriptive Statistics:** Measures of Central Tendency: Mean, Mode, Median

Tabulation and Generalization

Measures of Dispersion, Variance and Covariance

Standard Deviation, Graphical presentation of data-bar, pie-line graphs, Histograms etc.

**Regression:** Linear and Non-linear

Z-T Test Correlation, Chi-square Test,

**Statistical Packages:** SPSS, IDMS, MICROSTAT

**Research Reporting :** Structure, Style, Contents, Style Manual –Chicago, MLA, APA. Qualities of Good Research Report

**Unit V:- Bibliometrics, Scientometrics and Informetrics**

**Bibliometrics:** Concept and Definition

Bibliometric Laws: Lotka's Law, Bradford's Law, Zipf's Law

Bibliographic Coupling, Obsolescence, Citation Studies, Citation Analysis, Impact Factor, E-citation

Scientometrics, Informetrics, Webometrics: Concept and Definition

**Recommended Books:**

1. Best, John W. and Khan, James. V. Research in Education. 9<sup>th</sup> Ed. New Delhi: Pearson Education, 2007.
2. Busha, Charles. H. and Harter, Stephen P. Research Methods in Librarianship: Techniques and Interpretation. New York: Academic Press, 1980.
3. Elhance, D. N. and Elhance, Veena. Fundamentals of Statistics. Allahabad: Kitab Mahal, 1996.
4. Fowlwe, Floyed J. Jr. Survey Methods. 2<sup>nd</sup> Ed. Sage Publication, 1993.
5. Garreti, Henery. E. Statistics in Psychology and Education. New Delhi: Surjeet Publication, 2006.
6. Gaur, Ajani. S. and Gaur, Sanjaya. S. Statistical Method for Practice and Research: A guide to data analysis using SPSS. New Delhi: Sage Publication, 2006.
7. Gorman, G. E. and Clayton, P. Qualitative Research for Information Professionals: A Practical Handbook.
8. Goswami, M. Research Methodology in Library Science. New Delhi: Common Wealth Publications, 1995.
9. Gupta, S. P. Statistical Methods, 30<sup>th</sup> Ed. New Delhi: S.Chand, 2001.
10. Gupta, Santosh. Research Methodology: Methods and Techniques. 2<sup>nd</sup> Rev. Ed. New Delhi: Willey, 1990.
11. Kothari, C. R. Research Methodology: Methods and Techniques. 2<sup>nd</sup> Revised Edition. New Delhi: New Age International Publishers, 2009.
12. Krishna, Kumar. Research Methods and Information Science. New Delhi: Haranand Publication, 1999
13. Kumar, P.S.G. A Student's Manual of Library and Information Science. New Delhi: B. R. Publishing House, 2002.
14. Kumar, P.S.G. Research Methods and Statistical Techniques. New Delhi: B. R. Publishing House, 2004
15. Kumar, Ranjit. Research Methodology: A step-by-step guide for beginners. New Delhi: Sage Publications, 1999.
16. Lancaster, F. W. Bibliometric Methods in assessing productive and impact or research. Bangalore: Sarada Ranganathan Endowment for library science, 1991.
17. Line, Maurice B. Library Surveys. 2<sup>nd</sup> Ed. London: Clive Bingley, 1982.

18. Mahapatra, Gayatri. Bibliometric studies on library and information science literature. New Delhi: Ess-Ess, 1997.
19. Panda, B. D. Research Methodology for Library Science. New Delhi: Anmol Publication, 1997.
20. Ravichandra Rao, I. K. Quantitative Methods for Library and Information Science. New Delhi: Wiley Eastern Ltd, 1983.
21. Ray, G. L. and Mondal, Sagar. Research Methods in Social Sciences and Extension Education. Calcutta: Naya Prokash, 1999.
22. Reilly, Kevin D. The Delphi Technique: Fundamentals and applications. New Delhi: Commonwealth, 1995.
23. Saravanavel, P. Methodology. 15<sup>th</sup> Ed. Allahabad: Kitab Mahal, 2003.
24. Wilkinson, T. S. and Bhandarkar, P. L. Methodology and Techniques of Social Research. Bombay: Himalaya Publishing House, 1984.

\*\*\*\*\*

### Elective Paper-VI (A)

#### Health Science Library and Information System

- Unit I:- Health Science Education and Health Science Libraries:**  
Growth and Development of Health Science (Medical and Paramedical) Education and Research in India  
Role of libraries in Health Science Education, Research and Extension Recent Growth and Development of Health Science Libraries in India Information Policies in Health of Family Welfare
- Unit II:- Information Sources and Services**  
Specialized Collections and Information Sources  
Health Science Information Center- National and International Information Services and Products in Health Science  
National and International Health Science Databases
- Unit III:- Organizations and Management of Resources**  
**Information Management :** Concept and Principles  
Information Organization, Processing and Dissemination  
Developing need based and on demand specialized services
- Unit IV:- Information Needs**  
Identifying Special Needs of Faculty, Research Staff and Scientist. User Studies and Study of Local and Regional Health Libraries
- Unit V:- Health Science Information Systems and Networks**  
Current Trends in Health Science Information Systems and Networks. Resources Sharing and Networking in Health Science Libraries in India. Professional and Research Association engaged in Medical and Health Sciences

### Recommended Books:

1. Carmell, Michael. (Ed). Medical Librarianship. London: Library Association, 1982.
2. Chinnappa, S. L. Information retrieval methods in health science. Proceedings of the National Seminar on Health Science Libraries in India. Bangalore: 1980.
3. Kaula, P. N. and et. al. (Ed) International and comparative Librarianship and Information Systems. New Delhi: B. R. Publishing Corporation, 1996.
4. Kochar, Ved B. Development of Medical Library and Information Resources in India. 5<sup>th</sup> International Congress on Medical Librarianship, 1985.
5. Krishan Kumar. Information needs and Information seeking Behaviour. National seminar on Health Information, 1990.
6. Sasikala, C. Industrial Library Systems. New Delhi: Reliance Publishing House, 1994.
7. Varalakshmi, R.S.R. Information Services in Medical College Libraries. New Delhi: Ess Ess Publications, 1993.
8. Vickery, B. C. Information Systems. England: Butterworth and Company Limited, 1973.

\*\*\*\*\*

### Elective Paper-VI (B)

#### Agricultural Library and Information System

- Unit I:- Agricultural Education and Agricultural Libraries**  
Growth and Development of Agricultural Education and Research in India  
Role of Libraries in Agricultural Education, Research and Extension  
Development of Agricultural Libraries in India, Information Policies in Agricultural Science
- Unit II:- Information Sources & Services**  
Specialized Collections and Information Sources  
Information Services and Products in Agricultural Science  
Agricultural Information Centers-National and International  
National and International Agricultural Databases
- Unit III:- Organization and Management of Resources**  
General Principles of Information Management  
Information Organization, Processing and Dissemination  
Developing need based and on demand specialized services
- Unit IV:- Information Needs**  
Identifying Special Needs of Agricultural Faculty and Research Staff



User Studies and Survey of Local and Regional Agriculture Libraries

**Unit V:- Agricultural Information Systems and Networks**

Current Trends in Agricultural Systems and Networks

Resources Sharing and Networking in Agricultural Libraries in India

Professional and Research Association engaged in Agricultural Sciences.

**References Recommended:**

1. Alan Card, J. R. and Farrel, Lois. Guide to Agricultural and Biological Research. Beriveley: University of California, 1981.
2. Association of Indian Universities. Handbook of Agricultural Education. New Delhi: AIU, 1986.
3. Association of Indian Universities. Universities Handbook. New Delhi: AIU, 1985.
4. Bannerjee, S. R. and Moitra, S. Agricultural Documentation Services in India. New Delhi: ICAR Library (Unpublished).
5. Bose, P. C. AGRIS: International information system in Agricultural science and technology (In Gupta, B. M. and et. al. Handbook of Libraries, Archives and info cultures in India. V6. New Delhi: Info Resources Centre, 1988.
6. Deshmukh, P. P. (Ed.) Information Systems for Agricultural Sciences and Technology. New Delhi: Metropolitan, 1987.
7. Deshmukh, P. P. Indian Council of Agricultural Research (Delhi). Agricultural University Libraries on Committee, Final Report. New Delhi: ICAR, 1969.
8. Deshmukh, P. P. Standardization of Library and Information Services with special reference to scientific and agricultural libraries. New Delhi: ABC, 1990.
9. Dutta, S. Planning for an Agricultural information system in India.
10. Gupta, S.R. Stock verification in Libraries: Problems and Solutions. Delhi: Ken Pub., 1990.
11. Indian Council of Agricultural Research (New Delhi). Agricultural Universities (Review Committee) Report. New Delhi: ICAR, 1978.
12. Khanna, J. K. handbook of Library and Info Systems and Services. Delhi: Beacon, 1996.
13. Kumar, P. S. G. Agricultural Librarianship: MLISc. Elective paper. (Kumar curriculum series in Library & Information Science; 13). New Delhi: B. R. Publishing Corporation, 2008.
14. Lilley, P. Information Sources in Agriculture and Food Science. London: Butter Worths, 1981.
15. Maharashtra Government of Report of the Advisory Committee for

Establishment of Agricultural University. Bombay: Govt. of Maharashtra, 1965.

16. Ramtirth, Aris. Information System for Agriculture Science and Technology in perspective in Library and Information Science.1982.
17. Sangameswaran, S. V. and Gopinath, M. V. Transfer of Post-harvest technologies etc. (in Kapoor, S. V. and others ed. National Seminar of IASLIC, 1980.
18. Schmid, Helga. AGRIS: Database and Software development. (in Murthy, S. S. and et. al. Bibliographic databases and networks. New Delhi: Tata McGraw Hill, 1989.
19. Subbaiah, R. Agricultural Librarianship in India: An overview. New Delhi: Metropolitan, 1988.
20. Vashisth, C. P. International Info System in Agricultural Science and Technology (AGRIS) (in Agarwal D. S. Ed. Workshop on computer techniques information processing. Delhi.

\*\*\*\*\*

**Elective Paper-VI (C)**

**Engineering and Technological Library and Information System**

**Unit I:- Engineering and Technological Education and Engineering Libraries**

Growth and Development of Engineering Education and Research in India. Role of Libraries in Engineering Education, Research and Extension. Development of Engineering and Technological Libraries in India. Information Policies in Engineering and Technology

**Unit II:- Information Sources and Services**

Specialized Collections and Information Sources  
Information Services and Products in Engineering and Technology  
Engineering and Technological Information Centers-National and International, National and International Databases for Engineering Technology

**Unit III:- Organization and Management of Resources**

General Principles of Information Management  
Information Organization, Processing and Dissemination  
Developing need based and on demand specialized services

**Unit IV:- Information Needs**

Identifying Special Needs of Engineering Faculty, Research Staff and Engineers  
User Studies and Survey of Local and Regional Engineering and Technological Libraries

**Unit V:- Engineering and Technological Information Systems and Networks**

Current Trends in Engineering and Technological Systems and Networks Resources sharing and Networking

### References Recommended:

1. Cowley, John (Ed). The Management of Polytechnic Libraries. London (UK): Gower Publishing Company, Reprint 1987.
2. Dhawan, S. M. and others. Shaping the future of special libraries beyond Boundaries. New Delhi: Ane books Pvt. Ltd., 2009.
3. Gadgil, P. G. Industrial economy of India. Delhi: Eurasia, 1985.
4. Gaur, Ramesh C. Reengineering Library and Information Services: Process people and technology. New Delhi: Allied Publisher Pvt. Ltd., 2003.
5. Hirwade, Anil. Patent information services on Internet: An evaluation. Nagpur: Himalaya Publishing house, 2008
6. Kumar, P. S. G. Business/Industrial Librarianship: MLISc. Elective paper. (Kumar curriculum series in Library & Information Science; 14). New Delhi: B. R. Publishing Corporation, 2008.
7. Lamb, J. P. Commercial and Technical libraries. London: George Allen and Unwin Ltd, 1955.
8. Lancaster, F. W. Libraries and Librarians in an age of Electronics. Arlington: Information Resources Press, 1982.
9. Sasikala, C. Industrial Library Systems. New Delhi: Reliance Publishing House, 1994.
10. Sinha, Suresh C. and Dhiman, Anil K. Special Libraries: Research and Technical libraries. New Delhi: Ess-Ess Publication, 2002.
11. Thakur, D. S. Scientific and Technical Libraries. New Delhi: Ess-Ess Publication, 2006.

\*\*\*\*\*

### PART- II (PRACTICAL)

1. **Library Networks and Digital Library** (Marks- 50)
  - Unit -1 Library Web page designing (Marks- 10)
  - Unit -2 Search and Retrieval of Information from  
Library Databases (Marks- 10)
  - Unit -3 E-books and E-journals (Marks- 10)
  - Unit -4 Scanning and Conversion of Text  
into Meta Documents (Marks- 10)
  - Unit -5 Building of Digital Library using  
Greenstone Digital Library Software (Marks- 10)
2. **Project Work** (Marks- 150)
  - (A) Project Work (Marks- 100)
  - (B) Viva-Voce of Project Work (Marks- 50)

\*\*\*\*\*