

Allama Iqbal Open University

Department of Library and Information Sciences

Subject: Study Guidance to MLIS Students of Semester 3

There are many resources mostly free are available on the internet that may serve as helping and allied material for study and assignment preparation.

Following is the course wise detail of these online resources/websites. However, you should also explore additional resources physical or online/websites and databases available elsewhere. You should also visit any nearby libraries for this purpose. You should also visit AIOU Libraries located in nearby AIOU regional offices.

General including LIS Resources for all Topics

1. **LIS Department website:** <http://lis.aiou.edu.pk/>
2. **Google Books:** <https://books.google.com.pk/bkshp?hl=en>
3. **HEC Digital Library:** <http://digitallibrary.edu.pk/>
4. **WikiPedia:** <https://en.wikipedia.org>
5. **EduScapes:** <http://eduscapes.com/collection/index.htm>
6. **Internet Archive:** <https://archive.org/>
7. **Reference Desk:** <http://www.referencedesk.org/>
8. **E-Prints in LIS:** <http://eprints.rclis.org/>
9. **Library Philosophy and Practice (e-journal):**
<https://digitalcommons.unl.edu/libphilprac/>
10. **IJoLIS:** <http://ijolis.aiou.edu.pk/>
11. **MJLIS:** <https://jice.um.edu.my/index.php/MJLIS/index>
12. **IFLA Journal:** <https://www.ifla.org/publications/node/1691>
13. **PJIML:** <http://journals.pu.edu.pk/journals/index.php/pjimpl/index>
14. **Free e-books:** <https://bookboon.com/> and <https://www.pdfdrive.net/>
15. **Free LIS resources:** <http://www.lislinks.com/>
16. **Free resources:** <http://gen.lib.rus.ec/>
17. **AIOU Central Library:** <http://library.aiou.edu.pk/>
18. **DDC 20th ed:** <https://archive.org/details/deweydecimalcla02dewe>
19. **AACR2R concise:** <https://www.slideshare.net/NadeemNazir2/aacr2-pdf-book>
20. **Sears List of Subject Headings 19th ed:**
<http://api.ning.com/files/UosqTfXFuFGPXsobch1cYPy1fqCkxEMS2rNTmSJbmtEDpdlYmpS2yGRCzN9hB8healggxr1rtuLCqVtZedFqbywMWUhAn55r/sears>
21. **Youtube:** <https://www.youtube.com>
22. **ODLIS:** https://www.abc-clio.com/ODLIS/odlis_b.aspx
23. **LOC Web Guides:** <https://www.loc.gov/rr/program/bib/libsci/fulltext.html>
24. **Internet Library for Librarians:** <http://www.itcompany2.com/inforetriever/>
25. **Slide Share:** <https://www.slideshare.net/>
26. **Research Gate (sign in/up required):** <https://www.researchgate.net>

Course Code 5645: Resource Sharing and Networking-I

Unit- 1-2: Concept of Resource Sharing, Importance and Prerequisites

1. <https://journals.ala.org/index.php/ltr/article/view/4407/5105>
2. <https://www.igi-global.com/dictionary/resource-sharing-and-networking-in-library-and-information-centres-in-africa/25243>
3. <https://www.slideshare.net/mayjoyce89/networking-and-resource-sharing-in-library-and-information>
4. <http://www.lisbdnet.com/resource-sharing-modern-library/>
5. <http://www.lisbdnet.com/resource-sharing-in-library-brief/>
6. <http://www.lislinks.in/2017/05/resource-sharing-concept-and-need.html>

Unit- 3-5: Resource Sharing Process, Systems, Models and Consortium

1. <https://ecommons.aku.edu/cgi/viewcontent.cgi?article=1001&context=libraries>
2. <https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=2198&context=libphilprac>
3. <http://www.sidnlps.org.pk/ConfonRSslides12/RSinDIG.ERA.pdf>
4. <https://www.oclc.org/en/reports.html>
5. <https://ecommons.aku.edu/cgi/viewcontent.cgi?article=1001&context=libraries>
6. <http://pnclink.org/annual/Annual1995/pdf/george.pdf>
7. <http://www.lisbdnet.com/types-of-resource-sharing-in-library/>
8. <http://www.sidnlps.org.pk/ConfonRSslides12/RS%20and%20Networking%20among%20AIOU%20Libraries%20A%20Proposed%20Model.pdf>
9. https://archive.ifla.org/IV/ifla73/papers/096-Zou_Dong-en.pdf
10. <http://eprints.rclis.org/7923/>

Unit- 6-7: Inter Library Loan and Union Catalogue

1. <https://www.ci.boerne.tx.us/DocumentCenter/View/3112/InterLibrary-Loan-2016?bidId=>
2. <http://www.ala.org/rusa/resources/guidelines/interlibraryloancode>
3. https://www.idsproject.org/conferences/2006/Oswego_ILL_procedures.pdf
4. <http://www.bhplnj.org/interlibrary-loan-policy/>
5. <https://www.oclc.org/content/dam/research/publications/library/2010/2010-07.pdf>
6. <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.227.5906&rep=rep1&type=pdf>
7. <http://www.ala.org/acrl/sites/ala.org.acrl/files/content/conferences/confsandpreconfs/2017/ExploringValueofInterlibraryLoan.pdf>
8. <https://www.ifla.org/files/assets/docdel/documents/guidelines-best-practice-ill-dd-en.pdf>
9. <https://files.eric.ed.gov/fulltext/ED339369.pdf>

Unit- 8-9: Resource Sharing Networks and Data Transmission

1. http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/library_and_information_science/academic_libraries/15-a._resource_sharing,_networks_&_consortia-2/et/2013_et_15-a.pdf
2. <https://pubsonline.informs.org/doi/pdf/10.1287/13-SSY130>
3. <http://www.cloudbus.org/papers/schandbook-chap23.pdf>
4. <http://ecomputernotes.com/computernetworkingnotes/communication-networks/data-transmission>
5. <https://www.studytonight.com/computer-networks/transmission-mode>
6. <https://ccm.net/contents/701-data-transmission-transmission-modes>

7. <https://www.geeksforgeeks.org/transmission-modes-computer-networks/>
8. <http://www.selfgrowth.com/articles/data-transmission-modes-and-its-types>
9. <http://etutorials.org/Networking/Lan+switching+first-step/Chapter+1.+Networking+Basics/Data+Transmission+Modes/>
10. http://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/library_and_information_science/special_and_research_libraries/29._research_library_networks,_consortia_and_resource_sharing/et/6116_et_m29et.pdf

Course Code 5646: Resource Sharing and Networking-II

Unit- 10-11: Transmission Media, Data Layers and Transport Protocol

1. <https://www.geeksforgeeks.org/types-transmission-media/>
2. <http://ecomputernotes.com/computernetworkingnotes/communication-networks/what-is-transmission-media-and-types-of-transmission-media>
3. <http://www.di-srv.unisa.it/~vitsca/RC-0809I/ch04.pdf>
4. https://www.webopedia.com/quick_ref/OSI_Layers.asp
5. <https://searchnetworking.techtarget.com/definition/OSI>
6. http://ru6.cti.gr/bouras-old/WP_Simoneau_OSIModel.pdf

Unit- 12-18: Types of Network, Internet, Intranet and Topologies

1. <https://www.lifewire.com/lans-wans-and-other-area-networks-817376>
2. <https://study.com/academy/lesson/types-of-networks-lan-wan-wlan-man-san-pan-epn-vpn.html>
3. <http://www.networking-basics.net/types-of-networks/>
4. <https://fcit.usf.edu/network/chap1/chap1.htm>
5. https://www.webopedia.com/quick_ref/topologies.asp
6. https://www.sqa.org.uk/e-learning/NetTechDC02CD/page_09.htm
7. <https://www.techopedia.com/definition/2419/internet>
8. <https://searchwindevelopment.techtarget.com/definition/Internet>
9. <https://www.gcflearnfree.org/internetbasics/what-is-the-internet/1/>
10. <http://www.cs.virginia.edu/~cs458/slides/module04-internetV2.pdf>
11. <http://www.science.smith.edu/~jcardell/Courses/EGR328/Readings/KuroseRoss%20Ch1.pdf>
12. <https://librarytechnology.org/document/1256>
13. <https://www.cp.eng.chula.ac.th/~somchai/spj/slides/Extras/CDROM%20Networking.pdf>

Course Code 5647: Advanced Technical Operations-I

Unit- 1-2: Principles and Methods of Subject Analysis and Subject Headings

1. <https://www.loc.gov/aba/publications/FreeLCSH/freelcsh.html>
2. <http://lili.org/forlibs/ce/able/course6/05subjectheadinglists.htm>
3. <https://ir.library.oregonstate.edu/downloads/gq67js532>
4. http://courses.unt.edu/SLIS5200Resources/Spring2016LE/OnlineModules/6_1_3_Subject_Analysis.pdf
5. <https://www.nap.edu/read/10866/chapter/58>

Unit- 3-4: Thesaurus Construction and Controlled Vocabulary

1. <http://orion.lcg.ufrj.br/Dr.Dobbs/books/book5/chap09.htm>
2. <http://capping.slis.ualberta.ca/cap10/EmilyOlsen/homepage.html>
3. <http://publish.uwo.ca/~craven/677/thesaur/main00.htm>

4. <http://apps.dri.ie/motif/docs/guidelines.pdf>
5. http://www.getty.edu/research/publications/electronic_publications/intro_controlled_vocab/what.pdf
6. <http://marciazeng.slis.kent.edu/Z3919/1need.htm>
7. <https://www.loc.gov/catworkshop/courses/thesaurus/pdf/cont-vocab-thes-trnee-manual.pdf>

Unit- 5-7: Principles and Methods of Indexing & Indexing Language and Indexing Process

1. <http://glossarium.bitrum.unileon.es/Home/lenguaje-documental/controlled-vocabularies>
2. <http://unesdoc.unesco.org/images/0001/000164/016443EB.pdf>
3. http://www.doc.ic.ac.uk/~nd/surprise_97/journal/vol4/mjc4/indexing.html
4. <https://librarianshipstudies.blogspot.com/2017/03/indexing-languages.html>
5. <https://www.triple-c.at/index.php/tripleC/article/view/95/134>
6. maryeule.weebly.com/uploads/4/0/3/9/.../types_of_indexing_languages-4th.ppt
7. <https://www.anzsi.org/resources/about-indexers-and-indexing/types-indexing/>

Unit- 8: Abstracts and Abstracting

1. <https://www.slideshare.net/ImeAmorMortel/abstracts-abstracting>
2. http://www.cs.bham.ac.uk/~pjh/modules/current/06991/lectures/writing/writing2_handout.pdf
3. <https://www.insidehighered.com/advice/2017/02/23/importance-writing-effective-abstract-when-you-submit-journal-article-essay>
4. <http://libguides.usc.edu/writingguide/abstract>
5. <http://www.kwasan.kyoto-u.ac.jp/~andrew/paquette/EngPhysTA1.pdf>
6. https://services.unimelb.edu.au/__data/assets/pdf_file/0007/471274/Writing_an_Abstract_Update_051112.pdf

Unit- 9: Enumerative and Faceted Classification

1. <http://www.lisbdnet.com/enumerative-classification-scheme/>
2. courses.ischool.utexas.edu/feinberg/2013/spring/.../Classification%20basics.docx
3. <http://people.ischool.berkeley.edu/~glushko/IFIOIR/Chapter6-20100917.pdf>
4. <http://fchasen.com/epubjs/v0.3/books/tdo/OEBPS/ch07s04.xhtml>
5. https://icis.org/wp-content/uploads/.../1997-06_Paper.Principles_of_Classification.pdf
6. <https://www.slideshare.net/lauraloveday/faceted-classification-system-in-libraries>
7. <https://www.slideshare.net/NadeemNazir2/comparative-study-of-major-classification-schemes>

Course Code 5648: Advanced Technical Operations-II

Unit- 10-12: Classification Systems and Comparative Study of Classification Schemes and E-DDC

1. <https://www.slideshare.net/NadeemNazir2/comparative-study-of-major-classification-schemes>
2. <http://www.hinkelmann.ch/knut/lectures/irko/IRKO-Classification.pdf>
3. <http://www.lisbdnet.com/types-library-classification-schemes/>
4. http://eprints.rclis.org/11392/1/A_New_Scheme_for_Library_Classification.pdf
5. www.jistap.org/notReviewEpaperFile.do?method=finalDown&journalSeq
6. http://www.academicjournals.org/article/article1381239290_Gedam%20and%20Paradkar.pdf
7. https://archive.org/stream/sayeintroductiontoli00rich/sayeintroductiontoli00rich_djvu.txt
8. <https://www.oclc.org/en/dewey.html>
9. <http://www.e-ddc.org/>
10. <https://www.achrnews.com/articles/110085-how-a-ddc-system-operates>
11. <http://www.lisbdnet.com/web-dewey-online-ddc/>

12. <https://www.oclc.org/en/dewey/features.html>

Unit- 13-14: Cataloguing Codes and AACR-2 Application

1. <https://profsite.um.ac.ir/~fattahi/cha2.htm>
2. <http://lisblog.in/cataloguing-codes/>
3. <http://www.moyak.com/papers/history-library-catalogues.html>
4. <http://www.aacr2.org/>
5. <http://www.rda-jsc.org/archivedsite/docs/aacr2.pdf>
6. <http://harep.org/Documentr/descripdf.pdf>
7. <https://www.neoslibraries.ca/wordpress/wp-content/uploads/2016/04/CatNon-Book.pdf>
8. <https://www.slideshare.net/ImeAmorMortel/cataloging-of-nonbook-materials-edited>
9. <https://www.dartmouth.edu/~library/catmet/cataloging/bks-w-nonbk.html>
10. https://www.bodleian.ox.ac.uk/__data/assets/pdf_file/0008/159659/M5-Special.pdf

Unit- 15-16 & 18: Bibliographic Formats, Database Technology and Bibliographical Tools

1. <https://www.oclc.org/bibformats/en.html>
2. <https://www.loc.gov/cds/desktop/Notice-OCLCBibFormats.pdf>
3. <https://www.loc.gov/marc/bibliographic/>
4. <https://www.inflibnet.ac.in/publication/other/webpagelink.pdf>
5. <https://searchsqlserver.techtarget.com/definition/database>
6. <https://www.techopedia.com/definition/24361/database-management-systems-dbms>
7. <http://library.ifpri.info/bibliographic-databases/>
8. <http://www.isca.in/rjrs/archive/v2/i12/14.ISCA-RJRS-2013-331.pdf>
9. <http://www.dl.itc.u-tokyo.ac.jp/gacos/e/faq-e/bunken-e.html>
10. <https://elearningindustry.com/12-best-free-online-bibliography-and-citation-tools>
11. <http://www.open.ac.uk/library/help-and-support/bibliographic-management>
12. <http://users.ox.ac.uk/~ctitext2/resguide/bibl96.html>

Unit- 17: The Bibliographic Description and ISBD

1. <https://www.ifla.org/publications/international-standard-bibliographic-description>
2. <https://www.ifla.org/best-practice-for-national-bibliographic-agencies-in-a-digital-age/node/8912>
3. https://www.ifla.org/files/assets/cataloguing/isbd/isbd-nbm_1987.pdf
4. <https://www.loc.gov/aba/pcc/documents/test-records-punctuation.html>

Course Code 5649: Research Methods and Techniques for Librarians-I

Unit- 1-2: Research in Librarianship and Scientific Research Method

1. <https://study.com/academy/lesson/what-is-research-definition-purpose-typical-researchers.html>
2. <https://ori.hhs.gov/module-1-introduction-what-research>
3. <http://www.etu.org.za/toolbox/docs/development/research.html>
4. http://www.sportsci.org/jour/0201/What_is_research.pdf
5. <http://www.ddegjust.ac.in/studymaterial/mba/cp-206.pdf>
6. https://www.researchgate.net/profile/Navindhra_Naidoo/publication/265704878_What_is_research_A_conceptual_understanding/links/54197fc60cf2218008bf83cf/What-is-research-A-conceptual-understanding.pdf?origin=publication_detail

Unit- 3-4: Research Problem and Review of Literature

1. <https://library.sacredheart.edu/c.php?g=29803&p=185918>

2. <http://libguides.usc.edu/writingguide/introduction/researchproblem>
3. <https://www.slideshare.net/drjayeshpatidar/research-problem-20719286>
4. <https://www.qualtrics.com/blog/research-problem/>
5. <https://writingcenter.unc.edu/tips-and-tools/literature-reviews/>
6. <http://advice.writing.utoronto.ca/types-of-writing/literature-review/>
7. <https://www.lib.uoguelph.ca/get-assistance/writing/specific-types-papers/writing-literature-review>
8. <http://libguides.usc.edu/writingguide/literaturereview>

Unit- 5: Hypothesis

1. <https://socialresearchmethods.net/kb/hypothes.php>
2. <https://www.verywellmind.com/what-is-a-hypothesis-2795239>
3. <https://www.slideshare.net/drjayeshpatidar/research-hypothesis-20719840>
4. <http://www.public.asu.edu/~kroel/www500/hypothesis.pdf>
5. <http://www.studylecturenotes.com/social-research-methodology/importance-of-hypothesis>
6. <http://pkdas.in/RM/rm-3.pdf>

Unit- 6-7: Research Methods in Librarianship

1. <https://www2.le.ac.uk/offices/red/rd/research-methods-and-methodologies>
2. <https://explorable.com/different-research-methods>
3. <https://study.com/academy/lesson/research-methodology-approaches-techniques-quiz.html>
4. https://www.orau.gov/cdcynergy/soc2web/content/phase05/phase05_step03_deeper_qualitative_and_quantitative.htm
5. <https://www.simplypsychology.org/qualitative-quantitative.html>
6. <https://explorable.com/quantitative-and-qualitative-research>
7. <https://dovetailapp.com/guides/qual-quant>
8. www.ugcasru.org/index.php?...differences-between-qualitative-and-quantitative-rese...

Unit- 8-9: Tools of Research

1. http://results.mu.ac.in/myweb_test/Research%20Methadology-Paper-3/Chapter-9.pdf
2. <http://euacademic.org/BookUpload/9.pdf>
3. https://www.researchgate.net/publication/270956555_CHAPTER_3_-_RESEARCH_METHODODOLOGY_Data_collection_method_and_Research_tools
4. http://www.fraserhealth.ca/media/2011_11_14_Quantitative-Research-Methods-and-Tools.pdf
5. <https://www.slideshare.net/TeacherMyke/introduction-and-tools-of-research>
6. <https://www.slideshare.net/sgisave/tools-of-data-collection>
7. <https://www.slideshare.net/shahida20/tools-for-data-collection-75324132>
8. <https://www.slideshare.net/argellee/the-research-instruments>

Course Code 5650: Research Methods and Techniques for Librarians-II

Unit- 10-11: Use of Libraries, Computers and Databases in Research

1. <http://www.rluk.ac.uk/wp-content/uploads/2014/02/Value-of-Libraries-report.pdf>
2. <https://www.thoughtco.com/using-a-library-1857187>
3. <http://www.rin.ac.uk/system/files/attachments/Researchers-libraries-services-report.pdf>
4. <http://sajlis.journals.ac.za/pub/article/viewFile/65/57>
5. <https://www.slideshare.net/saravananmsw/role-of-computers-in-research>

6. <https://pdfs.semanticscholar.org/15b1/a09d4cb5dbb2f2cfdac6deb7f62a2712acb8.pdf>
7. http://proxy.osapublishing.org/DirectPDFAccess/887994DA-AB75-E1AE-4D699AF7201E1A5C_269194/ETOP-2013-ETHB1.pdf?da=1&id=269194&uri=ETOP-2013-ETHB1&seq=0&mobile=no
8. <http://unesdoc.unesco.org/images/0000/000037/003772eo.pdf>

Unit- 12-14: Data Collection, Analysis, Statistical Application and Interpretation

1. <https://cyfar.org/data-collection-techniques>
2. <https://blog.socialcops.com/academy/resources/4-data-collection-techniques-ones-right/>
3. <https://up-za.libguides.com/c.php?g=485435&p=4425506>
4. <https://www.slideshare.net/jags009/data-collection-techniques-43333794>
5. <http://research.ccdmd.qc.ca/22-data-collection-techniques>
6. <https://pdfs.semanticscholar.org/a1ed/9ae7e3d4d9998e24cf18b284b0e2ab70b555.pdf>
7. <https://www.ngdata.com/what-is-data-analysis/>
8. <https://www.uio.no/studier/emner/matnat/ifi/INF4260/h10/undervisningsmateriale/DataAnalysis.pdf>
9. <https://www.intellisoft.com.sg/data-interpretation-and-analysis.html>
10. http://dSPACE.nwu.ac.za/bitstream/handle/10394/12269/Vosloo_JJ_Chapter_6.pdf?sequence=7
11. <https://study.com/academy/lesson/data-analysis-techniques-methods.html>
12. <https://www.slideshare.net/31mikaella/presentation-analysis-and-interpretation-of-data>
13. <https://www.biosch.hku.hk/merit/workshop/AoE%20RPG%20Workshop%20-%20Basic%20Statistics%20for%20Research.pdf>
14. <https://files.eric.ed.gov/fulltext/ED536788.pdf>

Unit- 15-16: Report Writing and Evaluation of Research Report

1. <https://www.aresearchguide.com/1steps.html>
2. <https://www.ischool.utexas.edu/~wyllys/IRLISMaterials/evaluatingres.html>
3. https://www.otago.ac.nz/courses/distance_study/otago021395.pdf
4. <https://www.d.umn.edu/~kbrorson/TSWadapted/resources/PDFS/CritiqueGuide2.pdf>
5. <http://mams.rmit.edu.au/9ok8sk0jw95j.pdf>
6. <http://nuweb9.neu.edu/personalitylab/wp-content/uploads/Criteria-for-Research-Papers.pdf>

Unit- 17: Librarianship Research in Pakistan

1. <http://www.webpages.uidaho.edu/~mbolin/naseer-mahmood.htm>
2. <https://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=2266&context=libphilprac>
3. <https://www.scribd.com/document/257724532/LIS-Research-in-Pakistan-An-Analysis-of-Pakistan-Library-and-Information-Science-Journal-1998-2007>
4. <http://www.irma-international.org/viewtitle/99960/>
5. <https://preprint.press.jhu.edu/portal/sites/ajm/files/17.3sheikh.pdf>

Unit- 18: Citation/Footnote Techniques

1. <http://www.plagiarism.org/article/what-is-citation>
2. <https://owl.english.purdue.edu/owl/section/2/>
3. <http://libguides.usc.edu/writingguide/citingsources>
4. <http://pitt.libguides.com/citationhelp>
5. <http://www.apastyle.org/>
6. http://www.chicagomanualofstyle.org/tools_citationguide.html