

**Allama Iqbal Open University**  
**Department of Library and Information Sciences**

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**Subject: Study Guidance to MLIS Students of Semester 2**

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/pjiml/index>
14. **Free e-books:** <https://bookboon.com/>
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 20<sup>th</sup> ed:** <https://archive.org/details/deweydecimalcla02dewe>
19. **AACR2R concise:** <https://www.slideshare.net/NadeemNazir2/aacr2-pdf-book>
20. **Sears List of Subject Headings 19<sup>th</sup> ed:**  
<http://api.ning.com/files/UosqTfXFuFGPXsobch1cYPy1fqCkxEMS2rNTmSJbmtEDpdlYmpS2yGRCzN9hB8healggr1rtuLCqVtZedFqbywMWUhAn55r/sears>
21. **Youtube:** <https://www.youtube.com>
22. **ODLIS:** [https://www.abc-clio.com/ODLIS/odlis\\_b.aspx](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/>

# MLIS 2<sup>nd</sup> Semester

## Collection Development (Code 5505)

### **Unit- 1 and 2: Bibliography its preparation and Bibliographical Control**

- <https://www.thoughtco.com/what-is-a-bibliography-1856905>
- <https://www.nottingham.ac.uk/student-services/documents/whatarebibliographiesandreferences.pdf>
- [http://www.softschools.com/examples/grammar/bibliography\\_examples/363/](http://www.softschools.com/examples/grammar/bibliography_examples/363/)
- <http://www.writeawriting.com/academic-writing/bibliography/>
- <https://www.ifla.org/node/7865>
- <https://www.ifla.org/best-practice-for-national-bibliographic-agencies-in-a-digital-age/node/8911>
- <http://www.ala.org/alcts/resources/collect/serials/microforms05>

### **Unit- 3 and 4: Collection Development and Collection Development Policy**

- <https://azlibrary.gov/libdev/continuing-education/cdt/overview>
- <https://lowercolumbia.edu/library/assets/documents/collection-policy.pdf>
- <http://bid.ub.edu/en/30/perez.htm>
- <http://lili.org/forlibs/ce/able/course1/03purpose.htm>
- <https://www.library.unsw.edu.au/study/about-unsw-library/policies-and-guidelines/collection-development-policy>
- <http://www.clib.dauniv.ac.in/E-Lecture/Collection%20Development.pdf>
- [https://www.browncountylibrary.org/wp-content/uploads/2012/09/G\\_1-Collection-Development-Policy-11-2014.pdf](https://www.browncountylibrary.org/wp-content/uploads/2012/09/G_1-Collection-Development-Policy-11-2014.pdf)
- [https://www.researchgate.net/publication/282261542\\_The\\_concept\\_of\\_collection\\_development\\_in\\_the\\_digital\\_world](https://www.researchgate.net/publication/282261542_The_concept_of_collection_development_in_the_digital_world)

### **Unit- 5, 6 and 7: Acquisition, Selection and Evaluation of Sources and Problems**

- <https://wellesleyps.org/teaching-learning/libraries/library-material-selection-policy/procedures-for-selection-and-de-selection-of-library-materials/>
- <http://lili.org/forlibs/ce/able/course3/03process.htm>
- <http://www.ala.org/tools/challengesupport/selectionpolicytoolkit/criteria>
- <http://www.ala.org/tools/atoz/profresourcesacquisitions/acquisitions>
- <https://academicjournals.org/journal/IJLIS/article-full-text-pdf/CCABA7150961>
- <https://pdfs.semanticscholar.org/9b4e/ebd32686e4dbd3d309dd6e7dd6e7e73fa5be.pdf>
- <http://www.liscom.org/postContent/fullPaper/pdf/paper%20presented/P%20O%2015%20Acquiring%20print%20Deepa.pdf>

### **Unit- 8 and 9: Resource Sharing, Storage, Weeding and Write Off Policy**

- <http://www.lisbdnet.com/types-of-resource-sharing-in-library/>
- [http://irjlis.com/wp-content/uploads/2013/05/15\\_IR109.pdf](http://irjlis.com/wp-content/uploads/2013/05/15_IR109.pdf)
- <http://www.clir.org/wp-content/uploads/sites/9/pub97.pdf>

- <https://www.bl.uk/aboutus/stratpolprog/collectioncare/publications/articles/2004/HShentonNPO%20Conf2004.pdf>
- <https://www.oclc.org/content/dam/research/publications/library/2007/2007-01.pdf>
- <https://www.selco.info/services-for-libraries/integrated-library-system/cataloging/weeding-resources/weeding-guidelines-and-manuals/>
- <http://lili.org/forlibs/ce/able/course4/05criteria.htm>
- <https://ualr.edu/library/cd-guidelines-weeding/>
- <http://www.ala.org/tools/challengesupport/selectionpolicytoolkit/weeding>
- <http://library.comsats.edu.pk/OtherRules.aspx>
- [https://www.researchgate.net/publication/255995121\\_Loss\\_of\\_Library\\_Materials\\_Policy\\_and\\_Guidelines](https://www.researchgate.net/publication/255995121_Loss_of_Library_Materials_Policy_and_Guidelines)

## **Management of Libraries and Information Centers-I (Code 5641)**

### **Unit 1: Theories and Principles of Management**

- [https://www.managementstudyguide.com/management\\_functions.htm](https://www.managementstudyguide.com/management_functions.htm)
- <https://www.toolshero.com/management/14-principles-of-management/>
- <https://managementhelp.org/management/theories.htm>
- <https://www.scribd.com/doc/26936883/Theories-and-Principles-of-Management-Report>
- <https://www.ajol.info/index.php/ejotmas/article/download/120992/110420>
- [https://en.wikiversity.org/wiki/Principles\\_of\\_Management](https://en.wikiversity.org/wiki/Principles_of_Management)

### **Unit 2: Planning**

- <http://ispatguru.com/planning-a-management-function/>
- <https://en.wikipedia.org/wiki/Planning>
- <http://www.businessmanagementideas.com/planning/planning-meaning-types-and-advantages/3402>
- <http://www.howard.edu/library/planning/Lib-Planning.pdf>
- <http://publiclibrariesonline.org/2016/08/the-importance-of-dynamic-planning-for-libraries/>

### **Unit 3: Decision-making**

- <http://www.yourarticlelibrary.com/decision-making/decision-types-6-types-of-decisions-every-organization-need-to-take/25660>
- <http://kalyan-city.blogspot.com/2011/08/importance-of-decision-making-in.html>
- <http://www.efos.unios.hr/repec/osi/journal/PDF/InterdisciplinaryManagementResearchXI/IMR11a20.pdf>

### **Unit 4: Organizing and Organizational Structure**

- <https://ctb.ku.edu/en/table-of-contents/structure/organizational-structure/overview/main>
- [https://en.wikipedia.org/wiki/Organizational\\_structure](https://en.wikipedia.org/wiki/Organizational_structure)
- <https://www.investopedia.com/terms/o/organizational-structure.asp>

### **Unit 5: Motivation of Personnel**

- <https://core.ac.uk/download/pdf/43166187.pdf>
- <https://www.inc.com/encyclopedia/employee-motivation.html>
- [https://en.wikipedia.org/wiki/Employee\\_motivation](https://en.wikipedia.org/wiki/Employee_motivation)
- <http://www.yourarticlelibrary.com/employee-management/importance-of-motivation-for-employees-employee-management/8681>
- <https://www.inc.com/ilya-pozin/14-highly-effective-ways-to-motivate-employees.html>

### **Unit 6: Leading and Leadership**

- <https://www.investopedia.com/terms/l/leadership.asp>
- <https://en.wikipedia.org/wiki/Leadership>
- <https://www.forbes.com/sites/forbescoachescouncil/2017/12/27/16-essential-leadership-skills-for-the-workplace-of-tomorrow/#7a2a1ae954ce>
- <https://tec.com.au/resource/9-common-leadership-styles-which-type-of-leader-are-you/>

### **Unit 7: Organizational Communication**

- <https://courses.lumenlearning.com/suny-introductiontocommunication/chapter/what-is-organizational-communication/>
- [https://en.wikipedia.org/wiki/Organizational\\_communication](https://en.wikipedia.org/wiki/Organizational_communication)
- <http://www.yourarticlelibrary.com/business-communication/essential-types-of-organizational-communication-with-diagram/25812>
- <https://www.managementstudyhq.com/types-of-communication.html>
- <https://www.slideshare.net/ruzerd/modern-theories-of-organizational-communication>

### **Unit 8: Human Resource Management/Staffing**

- <https://open.lib.umn.edu/humanresourcemanagement/chapter/1-1-what-is-human-resources/>
- <https://openaccess.leidenuniv.nl/bitstream/handle/1887/22381/ASC-075287668-3030-01.pdf>
- [https://en.wikipedia.org/wiki/Human\\_resource\\_management](https://en.wikipedia.org/wiki/Human_resource_management)
- [https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp\\_content/library\\_and\\_information\\_science/public\\_libraries/15.human\\_resources\\_of\\_public\\_libraries/et/2123\\_et\\_15.pdf](https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/library_and_information_science/public_libraries/15.human_resources_of_public_libraries/et/2123_et_15.pdf)
- <https://journals.tdl.org/llm/index.php/llm/article/viewFile/1729/1009>

### **Unit 9: Controlling**

- <http://ispatguru.com/controlling-a-management-function/>
- <https://study.com/academy/lesson/controlling-as-a-function-of-management.html>
- <http://www.yourarticlelibrary.com/business/what-is-the-importance-of-controlling-6-facts/1024>
- [https://en.wikipedia.org/wiki/Control\\_\(management\)](https://en.wikipedia.org/wiki/Control_(management))

## Management of Libraries and Information Centers-II (Code 5642)

### Unit 10: Budgeting

- <http://www.lisbdnet.com/library-budget-definition-what-is/>
- [https://www.webjunction.org/documents/webjunction/Developing\\_the\\_Library\\_Budget.html](https://www.webjunction.org/documents/webjunction/Developing_the_Library_Budget.html)
- <http://www.clib.dauniv.ac.in/E-Lecture/Budgeting.pdf>
- <https://www.accountingtools.com/articles/what-are-the-types-of-budgeting-models.html>
- <https://corporatefinanceinstitute.com/resources/knowledge/accounting/types-of-budgets-budgeting-methods/>

### Unit 11: Evaluation of Resources and Services

- <http://subjectguides.library.unsw.edu.au/elise/evaluating>
- <https://library.uaf.edu/ls101-evaluation>
- <https://library.westernsydney.edu.au/main/evaluate-your-resources>
- <https://library.sdsu.edu/research-services/research-help/evaluating-information>

### Unit 12: Library Management

- [http://164.100.133.129:81/econtent/Uploads/Library\\_Management.pdf](http://164.100.133.129:81/econtent/Uploads/Library_Management.pdf)
- [http://koreascience.or.kr/search/articlepdf\\_ocean.jsp?admNo=E1JSCH\\_2015\\_v3n2\\_58](http://koreascience.or.kr/search/articlepdf_ocean.jsp?admNo=E1JSCH_2015_v3n2_58)
- [https://en.wikipedia.org/wiki/Library\\_management](https://en.wikipedia.org/wiki/Library_management)

### Unit 13: Type of Libraries and Their Functions

- <http://www.lisbdnet.com/types-libraries-academic-public-national-special-library/>
- <https://hubpages.com/literature/The-three-main-types-of-library>
- [http://elibrary.bsu.az/books\\_rax/N\\_24.pdf](http://elibrary.bsu.az/books_rax/N_24.pdf)

### Unit 14: Public Library Management

- [https://www.tutorialspoint.com/public\\_library\\_management/public\\_library\\_management\\_tutorial.pdf](https://www.tutorialspoint.com/public_library_management/public_library_management_tutorial.pdf)
- [http://elibrary.bsu.az/books\\_rax/N\\_24.pdf](http://elibrary.bsu.az/books_rax/N_24.pdf)
- [https://www.tutorialspoint.com/public\\_library\\_management/public\\_library\\_management\\_organizational\\_structure.htm](https://www.tutorialspoint.com/public_library_management/public_library_management_organizational_structure.htm)
- <https://www.degruyter.com/downloadpdf/books/9783110232271/9783110232271.95/9783110232271.95.pdf>

### Unit 15: School Library Management

- [http://elibrary.bsu.az/books\\_rax/N\\_24.pdf](http://elibrary.bsu.az/books_rax/N_24.pdf)
- [https://www.akshara.org.in/wp-content/uploads/Teacher\\_Manual\\_English.pdf](https://www.akshara.org.in/wp-content/uploads/Teacher_Manual_English.pdf)
- <https://www.ifla.org/files/assets/school-libraries-resource-centers/publications/ifla-school-library-guidelines.pdf>

### Unit 16: Academic Library Management

- [http://elibrary.bsu.az/books\\_rax/N\\_24.pdf](http://elibrary.bsu.az/books_rax/N_24.pdf)
- [https://dc.uwm.edu/cgi/viewcontent.cgi?article=1000&context=sois\\_facbooks](https://dc.uwm.edu/cgi/viewcontent.cgi?article=1000&context=sois_facbooks)
- <https://crl.acrl.org/index.php/crl/article/view/16943/18644>

### **Unit 17: Special Library Management**

- [http://elibrary.bsu.az/books\\_rax/N\\_24.pdf](http://elibrary.bsu.az/books_rax/N_24.pdf)
- [https://www.ideals.illinois.edu/bitstream/handle/2142/6681/librarytrendsv21i2i\\_opt.pdf?sequence%3D1](https://www.ideals.illinois.edu/bitstream/handle/2142/6681/librarytrendsv21i2i_opt.pdf?sequence%3D1)
- [https://en.wikipedia.org/wiki/Special\\_library](https://en.wikipedia.org/wiki/Special_library)
- <http://www.lisbdnet.com/functions-and-objectives-of-specia/>

### **Unit 18: Digital Library Management**

- <http://www.ijird.com/index.php/ijird/article/download/42318/33816>
- [https://en.wikipedia.org/wiki/Digital\\_library](https://en.wikipedia.org/wiki/Digital_library)
- <http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1395&context=libphilprac>

## **Library Automation, Information Storage and Retrieval-I (Code 5643)**

### **Unit 1: Library Automation: Definition and Concepts**

- <http://www.lisbdnet.com/library-automation-concept/>
- [http://shodhganga.inflibnet.ac.in/bitstream/10603/74812/1/10\\_chapter%20iv%20library%20automation%20and%20networking.pdf](http://shodhganga.inflibnet.ac.in/bitstream/10603/74812/1/10_chapter%20iv%20library%20automation%20and%20networking.pdf)
- <http://eprints.rclis.org/22787/1/EPRINT%20Library%20Automation.pdf>
- <https://run.edu.ng/directory/oermedia/10515552154888.pdf>

### **Unit 2: Integrated Automated Systems**

- <https://www.bibliotechzw.com/blog/what-is-an-integrated-library-system/>
- [https://en.wikipedia.org/wiki/Integrated\\_library\\_system](https://en.wikipedia.org/wiki/Integrated_library_system)
- [http://shodhganga.inflibnet.ac.in/bitstream/10603/95492/11/11\\_chapter%203.pdf](http://shodhganga.inflibnet.ac.in/bitstream/10603/95492/11/11_chapter%203.pdf)
- <https://doi.org/10.1108/EL-08-2014-0127>
- <https://www.abc-clio.com/ABC-CLIOCorporate/product.aspx?pc=A2216P>

### **Unit 3: Planning Library Automation**

- <http://web.simmons.edu/~chen/nit/NIT'96/96-065-Cohn.html>
- [http://ir.inflibnet.ac.in:8080/ir/bitstream/1944/276/1/Inf\\_2.pdf](http://ir.inflibnet.ac.in:8080/ir/bitstream/1944/276/1/Inf_2.pdf)
- <http://library.sd.gov/forlibrarians/enewsletter/2014/jun/Automation-1to5-Article.pdf>

### **Unit 4: Automated system: Assessment, Selection and Evaluation**

- [https://liswiki.org/wiki/Criteria\\_for\\_evaluation\\_of\\_library\\_software\\_packages](https://liswiki.org/wiki/Criteria_for_evaluation_of_library_software_packages)
- [http://shodhganga.inflibnet.ac.in/bitstream/10603/3731/12/12\\_chapter%203.pdf](http://shodhganga.inflibnet.ac.in/bitstream/10603/3731/12/12_chapter%203.pdf)
- <https://blog.capterra.com/how-to-choose-the-right-library-automation-software/>
- <https://foss4lib.org/book/export/html/4799>

### **Unit 5: Maintenance of Automated System**

- [https://en.wikipedia.org/wiki/Software\\_maintenance](https://en.wikipedia.org/wiki/Software_maintenance)
- [http://shodhganga.inflibnet.ac.in/bitstream/10603/95492/12/12\\_chapter%204.pdf](http://shodhganga.inflibnet.ac.in/bitstream/10603/95492/12/12_chapter%204.pdf)
- <http://www.ijer.net/ijer/article/view/245/165>

### **Unit 6: Automation of Library Operations**

- [http://shodhganga.inflibnet.ac.in/bitstream/10603/5661/9/09\\_chapter%204.pdf](http://shodhganga.inflibnet.ac.in/bitstream/10603/5661/9/09_chapter%204.pdf)
- <https://islmblogblog.wordpress.com/2016/05/09/library-automation/>
- <http://www.clib.dauniv.ac.in/E-Lecture/Library%20Automation.pdf>

### **Unit 7: Use of Microcomputer in Libraries**

- [https://www.ideals.illinois.edu/bitstream/handle/2142/7613/librarytrendsv37i3d\\_opt.pdf?sequence=1](https://www.ideals.illinois.edu/bitstream/handle/2142/7613/librarytrendsv37i3d_opt.pdf?sequence=1)
- <http://web.simmons.edu/~chen/nit/NIT'89/89-173-jaa.html>
- [https://www.researchgate.net/publication/274716793\\_Microcomputer\\_Applications\\_in\\_Libraries](https://www.researchgate.net/publication/274716793_Microcomputer_Applications_in_Libraries)

### **Unit 8: Software Applications in Pakistani Libraries**

- <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.174.2624&rep=rep1&type=pdf>
- <https://pdfs.semanticscholar.org/ef02/e41ee1562f57595e4f1eab80a1a3333709c1.pdf>

### **Unit 9: Databases: Basic Concepts Creation Management and Maintenance**

- <https://www.service-architecture.com/articles/database/index.html>
- <https://opentextbc.ca/dbdesign01/chapter/chapter-3-characteristics-and-benefits-of-a-database/>
- [https://docs.oracle.com/cd/B12037\\_01/em.101/b12016/chap\\_db\\_admin.htm](https://docs.oracle.com/cd/B12037_01/em.101/b12016/chap_db_admin.htm)
- <https://en.wikipedia.org/wiki/Database>

## **Library Automation, Information Storage and Retrieval-II (Code 5644)**

### **Unit 10: Microcomputer-based Databases Development**

- <https://opentextbc.ca/dbdesign01/chapter/chapter-13-database-development-process/>
- <https://wofford-ecs.org/DataAndVisualization/DatabaseDevelopment/material.htm>
- <https://en.wikipedia.org/wiki/Database>

### **Unit 11: Bibliographic Databases Construction**

- <http://web.simmons.edu/~chen/nit/NIT'92/039-cai.htm>
- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4835589/pdf/jkms-31-660.pdf>
- <https://pdfs.semanticscholar.org/06f9/bee4208e1abb9c96ada52f3fb3222341efbb.pdf>
- [https://wiki.openoffice.org/wiki/Documentation/OOo3\\_User\\_Guides/Writer\\_Guide/Creating\\_a\\_bibliographic\\_db](https://wiki.openoffice.org/wiki/Documentation/OOo3_User_Guides/Writer_Guide/Creating_a_bibliographic_db)

### **Unit 12: Searching and Information Retrieval**

- <http://www.ijnjlt.com/files/Vol%202%20Issue%201/Kiran%20Prakash.pdf>
- [https://en.wikipedia.org/wiki/Information\\_retrieval](https://en.wikipedia.org/wiki/Information_retrieval)
- <http://wwwhome.cs.utwente.nl/~hiemstra/papers/IRModelsTutorial-draft.pdf>
- [https://www8.cs.umu.se/kurser/TDBC86/H06/Slides/1\\_OH\\_intro.pdf](https://www8.cs.umu.se/kurser/TDBC86/H06/Slides/1_OH_intro.pdf)

### **Unit 13: Boolean Logic and Search Strategies**

- <http://www.ijnglt.com/files/Vol%202%20Issue%201/Kiran%20Prakash.pdf>
- <http://wwwhome.cs.utwente.nl/~hiemstra/papers/IRModelsTutorial-draft.pdf>
- <http://www.ccs.neu.edu/home/jaa/CSG339.06F/Lectures/boolean.pdf>
- [https://aspoerri.comminfo.rutgers.edu/InfoCrystal/Ch\\_2.html](https://aspoerri.comminfo.rutgers.edu/InfoCrystal/Ch_2.html)

### **Unit 14: Vocabulary Control**

- [http://www.getty.edu/research/publications/electronic\\_publications/intro\\_controlled\\_vocab/what.pdf](http://www.getty.edu/research/publications/electronic_publications/intro_controlled_vocab/what.pdf)
- <https://www.librarianshipstudies.com/2017/03/vocabulary-control.html>
- <http://marciazeng.slis.kent.edu/Z3919/2principle.htm>
- [http://www.newworldencyclopedia.org/entry/Controlled\\_vocabulary](http://www.newworldencyclopedia.org/entry/Controlled_vocabulary)

### **Unit 15: Literature Searching**

- <https://www.birmingham.ac.uk/Documents/college-social-sciences/social-policy/hsmc-library/guide/6-steps-literature-search.pdf>
- [https://library.leeds.ac.uk/info/1404/literature\\_searching/14/literature\\_searching\\_explained](https://library.leeds.ac.uk/info/1404/literature_searching/14/literature_searching_explained)
- <https://www.editage.com/insights/tips-for-effective-literature-searching-and-keeping-up-with-new-publications>
- <http://www.open.ac.uk/library/help-and-support/how-do-i-do-a-literature-search>

### **Unit 16: CD-ROM Application (Information Retrieval)**

- <http://internet.unib.ktu.lt/physics/texts/communication/chap5.htm>
- <https://acasearch.files.wordpress.com/2015/03/onlineandcd-rominformationretrieval.pdf>
- [https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?referer=https://www.google.com/&httpsredir=1&article=1049&context=psas\\_articles;A](https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?referer=https://www.google.com/&httpsredir=1&article=1049&context=psas_articles;A)
- <http://w.openmpe.com/cslproceed/HPIX88/2018v3.pdf>

### **Unit 17: Internet Applications and Information Retrieval**

- <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.123.6711&rep=rep1&type=pdf>
- [http://site.uottawa.ca/~diana/csi4107/IR\\_draft.pdf](http://site.uottawa.ca/~diana/csi4107/IR_draft.pdf)
- <https://msbfile03.usc.edu/digitalmeasures/doleary/intellcont/Internet%20Information%20Systems-1.pdf>

### **Unit 18: Library Automation Problems in Pakistan**

- <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.174.2624&rep=rep1&type=pdf>
- <https://pdfs.semanticscholar.org/ef02/e41ee1562f57595e4f1eab80a1a3333709c1.pdf>
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