TITLE PAGE

LNSS PILOTING MODULE No: 4

TITLE OF MODULE: Information Literacy and Research Skills

COURSE MATERIALS: Presentation, Useful Links, List of Special Literature, Distributive Training Materials

TABLE OF CONTENTS

MODULE DESCRIPTION

Type: Training
Semester: Autumn
Target Audience: students, master students, doctoral students, teachers, librarians
Teacher expertise: Librarianship and Information Sciences
Teacher: ELENA HARCONITA, ACULINA MIHALUTA, ANNA NAGHERNEAC, MIHAELA STAVER, ELENA ŢURCAN
Language: Romanian, Materials are provided in English
Prerequisites: Knowledge in the field of librarianship and information sciences, Professional and didactic experience. Knowledge of course program
Module 4: Information Literacy and Research Skills

Restrictions: N/A
Supplementary regulations: N/A

Summary: Module ,,**Information Literacy and Research Skills**" for students, master students, doctoral students, teachers, librarians. It contains 8 topics:
- General LNSS project presentation: Module ,,**Information Literacy and Research Skills**". Curriculum. Information Literacy International Standards
- Information retrieval tools for studies and research
- Databases with multidisciplinary coverage
- LibUnivCatalog shared catalog . SLUSARB - PRIMO ExLibris Catalog
- Research data management tools
- Research Methodologies. Bibliometric / scientometric systems
- Management of bibliographic references. Reference Management software
- The ethics of information use. Creative Commons Licenses.

Overall aim: To develop specific knowledge and understanding of information literacy and to develop practical skills of efficient usage of information in library management/librarianship and in related subject areas.
Learning outcomes:
a)knowledge and implementation of Information Literacy International Standards .
b) notions about Information Literacy . Formation of perceptions and information search skills . databases search , sorting search by relevance, managing the results.

c) developing the skills to use personal reference management software . The ethics of information use .

MODULE STRUCTURE	
ECTS credits: 1 ECTS	Study Hours: 30Hrs (16 in class meetings and 14 independent work)
In- class Hours: 16 Day 1: 2 academic hours (90 minutes) Day 2: 2 academic hours (90 minutes) Day 3: 2 academic hours (90 minutes) Day 4: 2 academic hours (90 minutes) Day 5: 2 academic hours (90 minutes)	

Day 6: 2 academic hours (90 minutes)
Day 7: 2 academic hours (90 minutes)
Day 8: 2 academic hours (90 minutes)

Units:

- Units 1 General LNSS project presentation . Module ,,Information Literacy and Research Skills" Curriculum.Iinformation literacy International Standards
- Units 2 Information retrieval tools for studies and research
- Units 3 Databases with multidisciplinary coverage
- Units 4 LibUnivCatalog- the shared catalog of 7 university libraries from Moldova on the ExLibris Primo platform
- Units 5 Research data management tools
- Units 6 Research Methodologies. Methods / Bibliometric / scientometric systems
- Units 7 Management of bibliographic references . Reference Management software
- Units 8 The ethics of information use . Creative Commons Licenses .

Independent Hours : 14 Hours (content of individual work will be based on the topics covered during in-class activities)

Total : 30 Hours			
Assessment scheme			
Types of assessment:	Units	Weightin	Learning Outcomes:
Pre- and post-test evaluations will be conducted to check the comprehension of the module	1-8	Not relevant	Overall understanding of the topic
Assignment 1. Groupwork : Information Literacy. International standards Information retrieval tools for studies and research.	1-8	20%	a,b
Assignment 2: Group work : LibUnivCatalog -the shared	1-8	20%	b

catalog of 7 university libraries from Moldova on the ExLibris Primo platform.			
Assignment 3: Group work : Research data management tools. Research Methodologies. Methods / Bibliometric / scientometric systems.	1-8	20%	b, c
Assignment 4 Group work Management of bibliographic references . Reference Management software. The ethics of information use. Creative Commons Licenses.	1-8	20%	b,c
Practicum Assessment)	1-8	10%	a,b,c
Presence	1-8	10%	
Description of types of assessment			
The course will focus on the knowledge and developing librarians informational skills , students, master students, doctoral students and teachers on formation critical thinking style ,adequate to the requirements of the Information Society and the Knowledge Society, expressed through the ability to analyze the information environment, adapting to the environment technology through the use of tools,remote resources, open access, obtaining the necessary training and research skills for training highly qualified specialists. Assignment 1: Presentation/Homework assignment (20%). Working in groups (5 or 6). The presentation is focusing on discussions about international standards, national experiences on the Information Literacy.			

Library Network Support Services

Assignment 2: Presentation/Homework assignment (20%). Working in groups (5 or 6). Participants will be able to apply the tools for retrieving information for studies and research: databases, catalogs, institutional repositories, etc.	
Assignment 3: Presentation/Homework assignment (20%). Working in groups (5 or6). The trainees will be able to use intelligent software to manage bibliographic references, citation styles / methods.	

COURSE PLAN					
Activity day	Lesson Topic	Lesson Activities	Estimated student work time in minutes/ hours	Lesson Outcome/	Assessment forms
Day 1	General LNSS project presentation Module No.4 Information Literacy and Research Skills" Information Literacy International standards	1.Presentation by the teacher about LNSS project, goals and objectives, the role of the course within the project. 2.Module 4 presentation: Information Literacy and Research Skills. Curriculum. 3. Information Literacy International Standards Presentation. National experiences. Discussion on the assigned Reading	30 minutes 15 minutes 15 minutes 15 minutes 15 minutes	Basic knowledge of international standards of Information Literacy.	Presentation. discussions, debates, comparative analysis

Day 2	Information retrieval tools for studies and research	Defining information needs
		  1. Search engines
		  2. Online directories
		  3. Scientific Portals
		
		Discussion on the assigned reading
			15 minutes
			20 minutes
			20 minutes
			20 minutes
			
			15 minutes
				Understand and define information literacy.	Content analysis presentation

Day 3	Databases with multidisciplinary coverage	1. Databases with multidisciplinary coverage : searching / sorting / archiving criteria	30 minutes	Content analysis skills	Discussions, debates, evaluating presentation content
		• 11 EBSCO databases	15 minutes		
		• SpringerLink	15 minutes		
		2. Managing the results.	20 minutes		
		Strengthening individual knowledge and skills : tests, tasks, database exploitation .	10 minutes		
Day 4	LibUnivCatalog-the shared catalog of 7 university libraries from Moldova on the ExLibris Primo platform	LibUnivCatalog –the shared catalog of 7 university libraries from Moldova on the ExLibris Primo platform : search strategies, account creation, search, filtration,reservation, exporting information	60 minutes	Ability to explore the online catalog and identification of relevant resources	Analysis of research sources
		Strengthening individual knowledge and skills : tests.	30 minutes		
Day 5	Research data management tools	1. Repositories and scientific libraries	20 minutes	Practical skills of using information technology	Critical evaluation of research sources
		2. Social networks	15 minutes		
		3. WEB page	20 minutes		
		4. USARB OPEN RESEARCH ARCHIVE Instutional Repositories	20 minutes		
		Discussion on the assigned Reading.	15 minutes		
Day 6	Research Methodologies. Methods / Bibliometric / scientometric systems	1. Scientific research	20 minutes	Knowledge about bibliometric and scientometric	Analysis of presentation content
		2. Bibliographic documentation/	20 minutes		
		3. Bibliometric Methods	15 minutes		

		4. Scientometric systems. Impact factor	15 minites	measurement systems	
		Strengthening individual knowledge and skills : tests	20 minutes		
Day 7	Management of bibliographic references.	1.National Standard SM ISO 690:2012 Information and Documentation.Rules for presenting bibliographic referencing and citation information resources	15 minutes	Management basic data, citation standards	Analysis of presentation content
			20 minutes		
		2 Rules to write bibliographic references. 3. Styles of citation.	15 minutes		
	Reference Management software	4. Reference Management software: Mendeley, Endtone, Zotero.	25 minures		
		Strengthening individual knowledge and skills : tests	15 minutes		
Day 8	The ethics of information use	1. The ethics of information use . 2. Methods of avoiding plagiarism 3. Law on Copyright and Related Rights	20 minures 15 minutes 20 minutes	Basic knowledge of national copyright law and application in libraries	Presentation. discussions, debates, comparative analysis
	Creative Commons Licenses	4. Creative Commons Licenses	20 minutes		
		Strengthening individual knowledge and skills : tests	15 minutes		
TRAINERS GUIDE					
Activity title		**Activity description**		**Suggested materials**	
Day 1 General LNSS project presentation		1. LNSS project, goals and objectives, the role of the course within the project.		Presentations, Projector, monitor, flipcharts, markers, wight boared, internet resources, stick notes	

Module No.4 Information Literacy and Research Skills International standards of Information Literacy	2. Module 4 Information Literacy and Research Skills Presentation. Curriculum. 3. General introduction to international standards of Information Literacay. Types of organizations and standards (IFLA, SCONLE, ACRL, ALA, Congress Library, ISO, NISO, ISBN, ISSN, DOI etc.) 4. National Information Literacy experiences	http://www.ala.org/ http://www.ala.org/acrl/ http://www.isbn.org/standards/home/index.html https://www.isbn-international.org/content/what-isbn https://www.doi.org/ http://www.niso.org/home/ https://www.ifla.org/files/assets/information-literacy/publications/ifla-guidelines-ro.pdf http://albertkb.nl/mediapool/60/608240/
Day 2. Information retrieval tools for studies and research	1. Identifying information needs using an internet search engines • scientific portals • scientific directories • social networks	Projector, Notebook, Presentations Internet resources
Day 3. Databases with multidisciplinary coverage	1. Using research databases Principles to building and generating databases 2. Academic databases (EBSCO, SpringerLink, IOP Science , Cambridge Journals Online, Taylor & Francis, Online Journal Libraries etc.) 3.Open access databases	Projector, Notebook, Presentations http://web.a.ebscohost.com/ http://link.springer.com/ https://doaj.org/ http://www.eifl.net/e-resources/iopscience http://www.eifl.net/e-resources/imf-elibrary https://www.elgaronline.com/ http://www.wipo.int/ardi/en/ http://web.unep.org/oare/ http://www.fao.org/agora/en/ https://www.cambridge.org/core http://www.tandf.co.uk/libsite/productInfo/journals/TandFlibrary/

Day 4. LibUnivCatalog – the shared catalog of 7 university libraries from Moldova on the ExLibris Primo platform	1. Location and retrieval of information. Searching and Identify sources by:
	  • simple / advanced search
	  • combining keywords
	  • boolean logical operators.
	
	2. Accessing information. Classification of documents. Storage, refining and archiving information. Types of catalogs..
		Projector, Notebook, Presentations
		http://primo.libuniv.md/
		http://cc.sibimol.bnrm.md/opac
		http://libruniv.usarb.md/images/pdf/ghid_tutorial/LibUniv_catalog_ro.pdf
		http://libruniv.usarb.md/images/pdf/ghid_tutorial/LibUniv_catalog_ru.pdf

Day 5. Research data management tools	1. Use of ICT in information retrieval activity institutional repositories
	  • open scientific libraries
	  • SLUSARB website
		Projector, Notebook, Presentations, Internet resources
		http://libruniv.usarb.md
		http://libruniv.usarb.md/images/pdf/bci_tema_1/motoare_cautare.pdf
		http://libruniv.usarb.md/images/pdf/bci_tema_1/repozitorii_biblioteci_deschise.pdf
		http://libruniv.usarb.md/images/pdf/ghid_tutorial/tutorial_ORA-USARB.pdf
		http://libruniv.usarb.md/xXx/bibl_digit.html
		http://dspace.usarb.md:8080/jspui/

Day 6. Research Methodologies. Methods / Bibliometric / scientometric systems	1. Qualitative and quantitative research methodologies. 2. General introduction to metrics / scientometrics systems.Impact factor. 3. Citation analysis: Web of Science, Google Scholar,Publish or Perish. H-index and Impact factor.	Projector, Notebook, Presentations https://clarivate.com/products/web-of-science/ https://publish-or-perish.en.softonic.com/download https://scholar.google.com/
Day 7. Management of bibliographic references . Reference Management software	1. National Standard SM ISO 690:2012. Information and Documentation.Rules for presenting bibliographic referencing and citation information resources 2. Styles / citation methods	Projector, Notebook, Presentations https://www.youtube.com/watch?v=V73xn14qGDQ http://tinread.usarb.md:8888/tinread/fulltext/bsu/reguli_referinte.pdf

	3. Using personal reference management software EndNote, Mendeley, Zotero for citations and references	http://cde.ugal.ro/documente/mendeley.pdf http://endnote.com/ https://www.mendeley.com/ https://www.zotero.org/
Day 8. The ethics of information use . Creative Commons Licenses	1. Law on Copyright and Related Rights. Copyright. Restrictions. Avoiding plagiarism. Author professional ethics. 2.Creative Commons Licenses	http://lex.justice.md/md/336156/ http://edu.asm.md/tc_userfiles/cod-etica.pdf http://www.usarb.md/fileadmin/noutati/AVIZE/avize /12_12_12/Codul_de_etica_universitara1. PDF http://www.edu.gov.md/sites/default/files/document/att achments/codul_de_etica_ro_4.pdf http://www.detectareplagiat.ro/ www.ephorus.com/ http://www.copyscape.com/, http://libruniv.usarb.md/images/pdf/bci tema_4/etica_utilizarii_informatiei.pdf https://creativecommons.org/licenses/?lang=ro

LIST OF SUGGESTED LITTERATURE

Bibliografie
1. BANCIU, Doina *Servicii de informare pentru cetăţeni în societatea informaţională* [on-line]. Disponibil: www.academiaromana.ro/pro_pri/doc/st_f00.doc
2. CAVANAGH, Jerald, Padraig KIRBY. *English for Specific Purposes Module 4-Information Literacy & Research skills- to help learners find and use information effectively and ethically,* 2016

3. CHELCEA, Septimium. *Metodologia elaborării unei lucrări ştiinţifice* [on-line] [citat 08 august 2016]. Disponibil: http://istoriesociala.ro/pdf/Tiu/UCDC/Licenta/chelcea_metodologie_lucrare_stiintifica.pdf
4. *Codul de etică şi deontologie profesională a cercetătorilor şi cadrelor universitare.* [on-line] [citat 5 august 2016]. Disponibil: http://edu.asm.md/tc_userfiles/cod-etica.pdf

5. *Codul de etică universitară. Universitatea de Stat „Alecu Russo" din Bălţi,* Bălţi, 2007 [on-line] [citat 11 august 2016]. Disponibil: http://www.usarb.md/fileadmin/noutati/AVIZE/avize/12_12_12/Codul_de_etica_universitara1.PDF

6. *Codul penal al Republicii Moldova* [on-line] [citat 5 august 2016]. Disponibil: http://lex.justice.md/md/331268/

7. *Constituția Republicii Moldova.* Chişinău : Ed. MOLDPRES, 1994, p.12.

8. CORAVU, Robert. *Ce este plagiatul şi cum poate fi prevenit (dacă se doreşte)* [on-line] [citat 3 august 2016]. Disponibil: https://www.researchgate.net/publication/295859327_Ce_este_plagiatul_si_cum_poate_fi_prevenit_daca_se_doreste

9. *Dicționarul Explicativ al Limbii române* [on-line] [citat august 2016]. Disponibil: http://dexonline.ro/definitie/plagiat

10. *Ghid împotriva plagiatului* [on-line] [citat 25iulie 2016]. Disponibil: http://polito.ubbcluj.ro/scoaladoctorala/?page_id=214

11. *GUIDELINES FOR TRAINING OF IL TEACHERS/PRACTITIONERS* : Information Literacy Cranfield Modules [on-line]: Disponibil: http://info-lit.shrivenham.cranfield.ac.uk/index.html

12. LAU, Jesus. *Linii directoare privind cultura informaţiei şi instruirea de-a lungul întregii vieţi*. Ch.: Gunivas, 2010. 64 p. ISBN 978-9975-4070-2-1.

13. *Legea privind dreptul de autor si drepturile conexe* [on-line] [citat 5 august 2016]. Disponibil: http://lex.justice.md/index.php?action=view&view=doc&lang=1&id=336156

14. LIVADARU, Costel Daniel. *Plagiatul – o problemă gravă pentru mediul academic!* [on-line] [citat 20 august 2016]. Disponibil: https://livadarucostel.wordpress.com/2013/12/10/plagiatul-o-problema-grava-pentru-mediul-academic/

15. PARK, Chris. *In Other (People's) Words: plagiarism byuniversity students—literature and lesson.* [on-line] [citat 8 august 2016]. Disponibil: http://www.lancaster.ac.uk/staff/gyaccp/caeh_28_5_02lores.pdf

16. *Reguli pentru prezentarea referinţelor bibliografce şi citarea resurselor de informare* : Ghid practic. Alcăt. Ana NAGHERNEAC. Red.-resp. Elena HARCONIŢA. Bălţi, 2012. 44 p. ISBN 978-9975-50-092-0; http://tinread.usb.md:8888/tinread/fulltext/bsu/reguli_referinte.pdf

17. REPANOVICI, Angela. *Ghid de cultura informaţiei*. Bucureşti : Ed. Asoc. Bibliotecarilor din România, 2015. 115 p. ISBN 978-973-85962-9-0.

18. REPANOVICI, Angela. R*egăsirea informaţiilor prin utilizarea bazelor de date electronice* [on-line] [citat 2 oct. 2016]. https://newinformationservices.files.wordpress.com/2013/12/chisinau_20-22_11_2013.pdf

19. ROBU, Ioana. *Citarea bibliografică* : [Prezentare PowerPoint]. Cluj, 2016. 15 sl.

20. *SM ISO 690:2012 Informare şi Documentare. Reguli pentru prezentarea referinţelor bibliografice şi citarea resurselor de informare (ISO 690:2010, IDT).*

21. TACU, Mariana. *Fenomenul plagiatului în contextul noilor tehnologii informaționale* [on-line] [citat 17 iulie 2016]. Disponibil: http://www.media-azi.md/ro/stiri/fenomenul-plagiatului-%C3%AEn-contextul-noilor-tehnologii-informa%C8%9Bionale

22. *Tratat de biblioteconomie.* Coord. generală Mircea REGNEALĂ, Ionel EHACHE. Bubcureşti, 2017, vol.3, pp 479-497. ISBN 978-606-93535-7.

23. UNGUREANU, Elena. Plagia(to)rismul în epoca Internetului: 10 sugestii de evitare. In: *Probleme actuale ale organizării şi autoorganizării sistemului de cercetare-dezvoltare în Republica Moldova* : Materialele Conf. şt. (2011 ; Chişinău). Chişinău, 2011, pp. 283-288. ISBN 978-9975-105-52-1.