

Subject card

Subject name and code	Digital Libraries, PG_00048259								
Field of study	Informatics								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Optional subject group Specialty subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish	Polish		
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic pro	ofile	Assessme	nt form	assessment				
Conducting unit	Department of Intelligent Interactive Systems -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname	Subject supervisor		dr Magdalena Godlewska						
of lecturer (lecturers)	Teachers		dr Magdalena Godlewska						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30 4.		4.0		16.0		50	
Subject objectives	To understand a class of Web information systems for collecting knowledge of human civilization. To characterize design, deployment and exploitation problems of digital library systems. To implement a practically simple digital library system.								

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Int 7_U09] can carry out a critical analysis of the functional of all purposes of the functions of advanced technical systems, device and apply experience related to the maintenance of advanced technical systems, device and disturbed to the maintenance of advanced and processes and apply experience related to the maintenance of advanced and content and the professional engineering environment (IK7_W11] knows and understands, to an increased of contents and development of formations of various byses of authorities from the professional engineering environment (IK7_W11] knows and understands, to an increased of creation and development of formations of various byses of authorities related to the awarded quartication, including the industrial property and copyright law with the field of authorities and practical problems. IK7_U03 can design, according to require development of professional engineering motivation and controlled problems. IK7_U03 can design, according to problems. IK7_U03 can design, according t	Learning outcomes	Course outcome	Subject outcome	Method of verification				
understands, to an increased extent, the general principles of creation and development of creation of creating and the economic, legal and other conditions of vanious types of activities related to the awarded question of labeling property and copyright labeling problems of the property of the pr		analysis of the functioning of existing technical solutions and assess these solutions, as well as apply experience related to the maintenance of advanced technical systems, devices and facilities typical for the field of studies, gained in the professional	the field of digital libraries from the point of view of economic, cultural, ethical and current technological					
critical evaluation of received content and to acknowledge the importance of knowledge the importance of knowledge in solving couplitive and practical problems communication skills, including language correctness Skifs Assessment of ability to solving couplitive and practical problems communication skills, including language correctness Skifs Assessment of ability to solving coupling and practical problems communication skills, including language correctness Skifs Assessment of ability to solving language correctness Skifs Assessment of ability to solving language correctness Carding, storing, organizaring, distributing and sharing the digital library software. Skifs Skif		understands, to an increased extent, the general principles of creation and development of forms of individual entrepreneurship and the economic, legal and other conditions of various types of activities related to the awarded qualification, including the principles of protection of industrial property and copyright	conditions for creating and maintaining digital libraries, including the principles of protecting copyright and property	knowledge [SW2] Assessment of knowledge				
required specifications, and make a complex device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study with the professional engineering environment 1.0 ligital collections: examples, 2. Basic functionality of digital libraries 3. Knowledge gained from the subject study and experience gained in the professional engineering environment 1.0 ligital collections: examples, 2. Basic functionality of digital libraries 3. Knowledge based society concepts 4. The Alexandrian principle 5. Legal aspects: copyright protection, 6. Cultural barriers, ethical issues 7. Digital library: a project or enterprise? 8. Sources of materials 9. Feasibility study of DL projects 10. Digitizing documents 11. Virtual libraries 12. Bibliographic organization. 8. Library information units 14. Knowledge classification systems 15. Modes of access 16. Case study: the MEMORIAL project 17. Presenting documents and metadata 18. Searching: types of query 19. Browsing: lists, privases, metadata 20. Document representation levels: character, text, page 21. Resource definition framework (RDF) 22. An XML query language 23. The use of bibliometrics (PageRank, HITS) 24. RSS syndication format 25. Challenges of new library media (email, IM, blogs, wiki) Prerequisites Assessment methods and criteria Project 50.0% 50		critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical	representing metadata and selected protocols for data exchange between digital libraries. Understands technical, legal, ethical and cultural aspects of curating, storing, organizing, distributing and sharing the digital	communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in				
concepts 4. The Alexandrian principle 5. Legal aspects: copyright protection. 6. Cultural barriers, ethical issues 7. Digital library: a project or enterprise? 8. Sources of materials 9. Feasibility study of DL projects 10. Digitizing documents 11. Virtual librariers 12. Bibliographic organization 13. Library information units 14. Knowledge classification systems 15. Modes of access 16. Case study: the MEMORIAL project 17. Presenting documents and metadata 18. Searching: types of query 19. Browsing: lists, phrases, metadata 20. Document representation levels: character, text, page 21. Resource definition framework (RDF) 22. An XML query language 23. The use of bibliometrics (PagRank, HITS) 24. RSS syndication format 25. Challenges of new library media (email, IM, blogs, wiki) Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade Exam 40.0% 35.0% Project Attendance/activity 40.0% 15.0% Recommended reading Witten, I.H., Bainbridge, D.: How to build a digital library, Morgan Kaufmann Publishers, 2003. Powers, S.: Practical RDF, OReilly & Associates, 2003. Hammersley, B.: Content Syndication with RSS, O'Reilly Media, Inc., 2003 Pent, http://pl.wikibooks.org/wiki/Perl JeromeDL/2.1/DeveloperGuide, http://wiki.corrib.org/index.php/ JeromeDL/2		required specifications, and make a complex device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering		fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to				
Assessment methods and criteria Subject passing criteria	Subject contents	concepts 4. The Alexandrian principle 5. Legal aspects: copyright protection. 6. Cultural barriers, ethical issues 7. Digital library: a project or enterprise? 8. Sources of materials 9. Feasibility study of DL projects 10. Digitizing documents 11. Virtual libraries 12. Bibliographic organization 13. Library information units 14. Knowledge classification systems 15. Modes of access 16. Case study: the MEMORIAL project 17. Presenting documents and metadata 18. Searching: types of query 19. Browsing: lists, phrases, metadata 20. Document representation levels: character, text, page 21. Resource definition framework (RDF) 22. An XML query language 23. The use of bibliometrics (PageRank, HITS) 24. RSS syndication format 25.						
and criteria Exam		No requirements						
Project 50.0% 50.0% 50.0% Attendance/activity 40.0% 15.0% Recommended reading Basic literature Witten, I.H., Bainbridge, D.: How to build a digital library, Morgan Kaufmann Publishers, 2003. Powers, S.: Practical RDF, OReilly & Associates, 2003. Hammersley, B.: Content Syndication with RSS, O"Reilly Media, Inc., 2003 Perl, http://pl.wikibooks.org/wiki/Perl JeromeDL/2.1/DeveloperGuide, http://pl.wikibooks.org/wiki/Perl JeromeDL/2.1/DeveloperGuide Walmsley, P.: XQuery, O"Reilly Media, Inc., 2007 Supplementary literature No requirements eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed 1. Data acquisition (scanner). 2. Digital material processing (Adobe Photoshop) 3. Document content extraction (Abby Fine Reader) 4. OCR quality evaluation 5. Publication of digital library objects (Greenstone, DLibra)		Subject passing criteria	Passing threshold	Percentage of the final grade				
Attendance/activity 40.0% 15.0% Recommended reading Basic literature Witten, I.H., Bainbridge, D.: How to build a digital library, Morgan Kaufmann Publishers, 2003. Powers, S.: Practical RDF, OReilly & Associates, 2003. Hammersley, B.: Content Syndication with RSS, O"Reilly Media, Inc., 2003 Perl, http://pl.wikibooks.org/wiki/Perl JeromeDL/2.1/DeveloperGuide, http://wiki.corrib.org/index.php/ JeromeDL/2.1/DeveloperGuide Walmsley, P.: XQuery, O"Reilly Media, Inc., 2007 Supplementary literature Ro requirements eResources addresses Adresy na platformie eNauczanie: 1. Data acquisition (scanner). 2. Digital material processing (Adobe Photoshop) 3. Document content extraction (Abby Fine Reader) 4. OCR quality evaluation 5. Publication of digital library objects (Greenstone, DLibra)	and criteria	Exam	40.0%	35.0%				
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Kaufmann Publishers, 2003. Powers, S.: Practical RDF, OReilly & Associates, 2003. Hammersley, B.: Content Syndication with RSS, O"Reilly Media, Inc., 2003 Perl, http://pl.wikibooks.org/wiki/Perl JeromeDL/2.1/DeveloperGuide, http://wiki.corrib.org/index.php/ JeromeDL/2.1/DeveloperGuide Walmsley, P.: XQuery, O"Reilly Media, Inc., 2007 Supplementary literature No requirements eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed 1. Data acquisition (scanner). 2. Digital material processing (Adobe Photoshop) 3. Document content extraction (Abby Fine Reader) 4. OCR quality evaluation 5. Publication of digital library objects (Greenstone, DLibra)		Attendance/activity	40.0%	15.0%				
Example issues/ example questions/ tasks being completed eResources addresses Adresy na platformie eNauczanie: 1. Data acquisition (scanner). 2. Digital material processing (Adobe Photoshop) 3. Document content extraction (Abby Fine Reader) 4. OCR quality evaluation 5. Publication of digital library objects (Greenstone, DLibra)	Recommended reading	Kaufmann Publishers, 2003. Powers, S.: Practical RDF, OReilly & Associates, 2003. Hammersley, B.: Content Syndication with RSS, O"Reilly Media, Inc., 2003 Perl, http://pl.wikibooks.org/wiki/Perl JeromeDL/2.1/DeveloperGuide, http://wiki.corrib.org/index.php/ JeromeDL/2.1/DeveloperGuide Walmsley, P.: XQuery, O"Reilly Media,						
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Work placement Not applicable	example questions/	 Digital material processing (Adobe Photoshop) Document content extraction (Abby Fine Reader) OCR quality evaluation 						
	Work placement	Not applicable						

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