

Name: Information and Database Architecture					
module/course code: PII62007	Student workload: 340 Minutes/Week	Credits (ECTS): 2	Semester 4	Frequency Even Semester	Duration
Types of courses: Tutorial/Lecture/Response		Contact hours: 100 minutes/week	Independent study 240 minutes/week		Class size X students: 30 Students
1	Prerequisites for participation -				
2	<p>Learning outcomes</p> <ol style="list-style-type: none"> <li>1. Students are able to understand, master, and explain correctly and precisely about the concepts, methods and practices of user-centered design, usability, and usability testing of databases of library and archives institutions.</li> <li>2. Students are able to understand, master, and explain correctly and precisely the concepts, methods and practices of the parameters and principles of the interdisciplinary field of information architecture (IA) and resources including research, design, and evaluation in library and archives institutions.</li> <li>3. Students are able to understand, master, and explain correctly and appropriately the concepts, methods and practices of analysis and design of organization, labels, navigation, and search systems for web-based user interfaces using various methods and software for library and archives institutions.</li> <li>4. Students are able to understand, master, and explain correctly and appropriately the concepts, methods and practices of documentation, case studies, blueprints, and wireframes for library and archives institutions.</li> </ol>				
3	<p>Description</p> <p>This course discusses the basic concepts, principles and practices of information architecture in web and library and archival applications and methods of user-based database design of information systems based on the principles of interaction design and analysis of user needs and behavior with the mechanism of designing information needs logical approach and object oriented design (OOD), including the development of database design that leads to RDBMS (Relational Database Management System).</p>				
4	<p>Teaching methods:</p> <ol style="list-style-type: none"> <li>1. Lectures</li> </ol>				
5	<p>Assessment methods:</p> <ol style="list-style-type: none"> <li>1. Assignments,</li> <li>2. Middle semester examination</li> <li>3. Quizzes</li> <li>4. Final semester examination</li> </ol>				
6	<p>Other information e.g. bibliographical references:</p> <ol style="list-style-type: none"> <li>1. Ramakrishnan, Raghu &amp; Gehrke, Johannes (2018), Database Management Systems, 3rd Edition. McGraw-Hill</li> <li>2. Ramez Elmasri &amp; Shamkant B. Navathe (2010) Fundamentals Of Database Systems Sixth Edition Addison-Wesley</li> <li>3. Tucker, V.M. (Ed.). (2018). Information retrieval system design: Principles &amp; practice (edition 5.1). AcademicPub/XanEdu.</li> </ol>				

	<ol style="list-style-type: none"><li>4. Nugraha, Ari. (2017). Pangkalan Data untuk Pengelolaan Data Lembaga Informasi. Jakarta: Penaku</li><li>5. Morville, P., &amp; Rosenfeld, L. (2006). Information Architecture for the World Wide Web: Designing Large-scale Web Sites. O'Reilly.</li><li>6. Brown, D. M. (2010). Communicating Design: Developing Web Site Documentation for Design and Planning. New Riders. (2nd Edition)</li><li>7. Resmi, A., &amp; Rosati, L. (2011). Pervasive Information Architecture: Designing Cross-Channel User Experiences (1 edition). Burlington, MA: Morgan Kaufmann.</li><li>8. Ding, W., &amp; Lin, X (2009). Information Architecture: The Design and Integration of Information Spaces. Morgan &amp; Claypool. [Note: Fulltext is online available through the UT Library]</li><li>9. Wodtke, C. (2009). Information Architecture: Blueprints for the Web (2 edition). Berkeley, CA: New Riders.</li></ol>
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