

Course Description Form	
Course Code and Name	BDA5112 Data Management and Standards
Course Semester	Fall/Spring
Catalog Content	Approaches in technology management, value creation, innovations from ideas in the context of corporate and entrepreneurship technology, Governance, Portfolio Management, Technology Roadmap, Data Master Plan, Data Dictionary and Information Architecture
Textbook	IT Strategy: Issues and Practices, James D. Mackeen, Heather A. Smith, 2nd Ed., Pearson, Prentice Hall, 12th Ed. ISBN-13: 9780132843010.
Supplementary Textbooks	<ol style="list-style-type: none"> 1. Strategic Management of Technological Innovation, Melissa A. Schiling, 3rd ed., McGraw Hill Int. Ed. 2. Information Technology Strategy and Management: Best Practices, Eng K. Chew & Petter Gottschalk, 1st Ed., Information Science Reference. ISBN-13: 978-1599048024
Credit	8
Prerequisites of the Course (Attendance Requirements)	There is no prerequisite or co-requisite for this course. 80% attendance is required.
Type of the Course	Elective
Instruction Language	English
Course Objectives	Information Systems as a business function with other corporate functions, management, development of knowledge and skills to develop strategic and organizational capability. In particular, the strategic level of technology-based innovations to handle and the real-world problems associated with it to take hazards in the project fiction and develop solutions.
Course Learning Outcomes	<ol style="list-style-type: none"> 1. Current Issues in Information Management, New Technologies, Operational and Managerial Perspective 2. Acquires and applies knowledge about the types and dynamics of technological innovations 3. Analyzes Roles, Governance, Organizational Structures for Information and Technology Management 4. Understands and applies the economic and strategic perspective for information and technology management 5. Knows IT control, service management approaches and methods and apply them to real world cases
Instruction Methods	The mode of delivery of this course is Face to face

<p>Weekly Schedule</p>	<ol style="list-style-type: none"> 1. Developing and Implementing IT Value Proposition 2. IT Strategy Development and Implementation 3. Strategy and IT Alignment 4. Innovative Perspective: Types, Contexts and Dynamics 5. Idea and Portfolio for Project, Technology Roadmap 6. Governance Perspective: Infrastructure, Investment Decisions, Structuring 7. Governance Perspective: Infrastructure, Investment Decisions, Structuring 8. Improving IT Capabilities 9. Project progress and review 10. Data Governance, Master Data Management 11. Data Governance, Master Data Management 12. IT Based Risk Management 13. Digital Identity Management 14. Security and Protection of Personal Data 																																							
<p>Teaching and Learning Methods</p> <p><i>(These are examples. Please fill which activities you use in the course)</i></p>	<p>Weekly theoretical course hours: 3 Reading Activities: 3 Internet browsing, library work: 1 Report preparing: 4 Preparing a Presentation: 10 Presentations: 2 Preparation of Midterm and Midterm Exam: 20 Final Exam and Preparation for Final Exam: 30</p>																																							
<p>Assessment Criteria</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%; text-align: center;">Numbers</th> <th style="width: 20%; text-align: center;">Total Weighting (%)</th> </tr> </thead> <tbody> <tr> <td>Midterm Exams</td> <td style="text-align: center;">1</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Assignment</td> <td style="text-align: center;">5</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Application</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Projects</td> <td style="text-align: center;">1</td> <td style="text-align: center;">20</td> </tr> <tr> <td>Practice</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Quiz</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Percent of In-term Studies (%)</td> <td></td> <td style="text-align: center;">60</td> </tr> <tr> <td>Percentage of Final Exam to Total Score (%)</td> <td></td> <td style="text-align: center;">40</td> </tr> <tr> <td>Attendance</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </tbody> </table>				Numbers	Total Weighting (%)	Midterm Exams	1	30	Assignment	5	10	Application	0	0	Projects	1	20	Practice	0	0	Quiz	0	0	Percent of In-term Studies (%)		60	Percentage of Final Exam to Total Score (%)		40	Attendance	-	-							
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Midterm Exam and Preparation for Midterm Exam	1	20	20
Final Exam and Preparation for Final	1	30	30
Other (should be emphasized)	0	0	0
Total Workload			200
Total Workload / 25			8.0
Course Credit (ECTS)			8.0

Contribution Level Between Course Learning Outcomes and Program Outcomes

No	Program Outcomes	1	2	3	4	5
1	Reaches the expansion of knowledge by conducting scientific research in the field of engineering and evaluation, interpretation and application of information.					X
2	Has extensive and in depth knowledge including the latest techniques, methods applied and their limitations in engineering.					X
3	Completes and applies knowledge by using scientific methods by using limited or missing data and integrates information from different disciplines.		x			
4	Be aware of new and developing practices of the profession, examines and learns when needed.					x
5	Defines and formulates problems related to the field, develops methods to solve them and applies innovative methods in solutions.					x
6	Develops new and / or original ideas and methods, designs complex systems or processes and develops innovative / alternative solutions in their designs.				x	
7	Designs and applies theoretical, experimental and modeling based researches, examines and solves the complex problems encountered in this process.		x			
8	Works effectively in disciplinary and multidisciplinary teams, leads such teams and develops solution approaches in complex situations, works independently and takes responsibility.		x			
9	Communicates oral and written using a foreign language at least at the level of European Language Portfolio C1.				x	

