

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, Healther A. Smith, 2nd Ed., Pearson, Prentice Hall, 12th Ed. ISBN-13: 9780132843010.
Supplementary Textbooks	<ol style="list-style-type: none"> <li>1. Strategic Management of Technological Innovation, Melissa A. Schiling, 3rd ed., McGraw Hill Int. Ed.</li> <li>2. Information Technology Strategy and Management: Best Practices, Eng K. Chew &amp; Petter Gottschalk, 1st Ed., Information Science Reference. ISBN-13: 978-1599048024</li> </ol>
Credit	8
Prerequisites of the Course ( Attendance Requirements)	<p>There is no prerequisite or co-requisite for this course.</p> <p>80% attendance is required.</p>
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"> <li>1. Current Issues in Information Management, New Technologies, Operational and Managerial Perspective</li> <li>2. Acquires and applies knowledge about the types and dynamics of technological innovations</li> <li>3. Analyzes Roles, Governance, Organizational Structures for Information and Technology Management</li> <li>4. Understands and applies the economic and strategic perspective for information and technology management</li> <li>5. Knows IT control, service management approaches and methods and apply them to real world cases</li> </ol>
Instruction Methods	The mode of delivery of this course is Face to face

Weekly Schedule	<div>1. Developing and Implementing IT Value Proposition</div> <div>2. IT Strategy Development and Implementation</div> <div>3. Strategy and IT Alignment</div> <div>4. Innovative Perspective: Types, Contexts and Dynamics</div> <div>5. Idea and Portfolio for Project, Technology Roadmap</div> <div>6. Governance Perspective: Infrastructure, Investment Decisions, Structuring</div> <div>7. Governance Perspective: Infrastructure, Investment Decisions, Structuring</div> <div>8. Improving IT Capabilities</div> <div>9. Project progress and review</div> <div>10. Data Governance, Master Data Management</div> <div>11. Data Governance, Master Data Management</div> <div>12. IT Based Risk Management</div> <div>13. Digital Identity Management</div> <div>14. Security and Protection of Personal Data</div>			
Teaching and Learning Methods	<div>Weekly theoretical course hours: 3</div> <div>Reading Activities: 3</div> <div>Internet browsing, library work: 1</div> <div>Report preparing: 4</div> <div>Preparing a Presentation: 10</div> <div>Presentations: 2</div> <div>Preparation of Midterm and Midterm Exam: 20</div> <div>Final Exam and Preparation for Final Exam: 30</div>			
Assessment Criteria		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	-	-	
Workload	Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
	Weekly Theoretical Course Hours	14	3	42
	Weekly Tutorial Hours	0	0	0
	Reading Tasks	13	3	39
	Studies	13	1	13
	Material Design and Implementation	0	0	0
	Report Preparing	8	4	32
	Preparing a Presentation	2	10	20
	Presentations	2	2	4

	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	

	10	Conveys the process and results of the studies in written and oral form in a systematic and clear manner in national and international environments within or outside the field.			x		
	11	Knows the social, environmental, health, security, legal aspects of engineering applications; project management, and business life applications and be aware of the constraints of these engineering applications.		x			
	12	Considers social, scientific and ethical values in the stages of data collection, interpretation and announcement and in all professional activities.	x				
<b>The Course's Lecturer(s) and Contact Informations</b>	<b>Computer Engineering Department Chair bmdb@gazi.edu.tr</b>						