



ÇANKAYA UNIVERSITY

Economics and Administrative Sciences

Course Definition Form

This form should be used for either an elective or a compulsory course being proposed and curricula development processes for an undergraduate curriculum at Çankaya University, Faculty of Engineering. Please fill in the form completely and submit the printed copy containing the approval of the Department Chair to the Dean's Office, and mail its electronic copy. Upon the receipt of *both copies*, the printed copy will be forwarded to the Faculty Academic Board for approval. Incomplete forms will be returned to the Department. The approved form is finally sent to the President's office for approval by the Senate.

Part I. Basic Course Information

Department Name	Management			Dept. Numeric Code	32		
Course Code	MAN 448	Number of Weekly Lecture Hours	3	Number of Weekly Lab/Tutorial Hours	0	Number of Credit Hours	3
Course Web Site	https://webonline.cankaya.edu.tr/			ECTS Credit	5,00		

Course Name <i>This information will appear in the printed catalogs and on the web online catalog.</i>	
English Name	Digital Financial Literacy
Turkish Name	Dijital Finansal Okuryazarlık

Course Description <i>Provide a brief overview of what is covered during the semester. This information will appear in the printed catalogs and on the web online catalog. Maximum 60 words.</i>	
Recently, digitalization, digital transformation and information technologies have become concepts that frequently encountered every day. Rapid improvement of digital technologies and their actively increasing use have considerably affected the global economy and financial system. Therefore, it has become necessary to understand this digital transformation and its implications on financial system. This course is offered with an aim to fulfill this necessity. The course is designed to introduce digital financial background to undergraduate students. Main objective of this course is to make students to get familiar with new concepts that digitalization brings to finance. The course highlights new concepts of financial innovations such as the use of artificial intelligence in finance, electronic trading platforms, digital banking, digital payment systems, DeFi, DEX, block chain technology, cryptocurrencies and tokens. In addition to these, laws and regulations, cyber-crimes, and other risks' management process associated with digitalization of finance will be discussed as well.	

Prerequisites (if any) <i>Give course codes and check all that are applicable.</i>	1 st	2 nd	3 rd	4 th
	<input type="checkbox"/> Consent of the Instructor	<input type="checkbox"/> Senior Standing	<input type="checkbox"/> Give others, if any.	
Co-requisites (if any)	1 st	2 nd	3 rd	4 th
Course Type <i>Check all that are applicable</i>	<input type="checkbox"/> Must course for dept. <input checked="" type="checkbox"/> Must course for other dept.(s) <input type="checkbox"/> Elective course for dept. <input type="checkbox"/> Elective course for other dept.(s)			

Course Classification <i>Give the appropriate percentages for each category.</i>				
Category				

Percentage					
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Part II. Detailed Course Information

Course Objectives

Explain the aims of the course. Maximum 100 words.

The main aim of this course is to give students an insight into how digitalization affects the financial system by especially focusing on the concepts of financial innovations such as the use of artificial intelligence in finance, electronic trading platforms, digital banking, digital payment systems, block chain technology and digital financial assets.

Learning Outcomes

Explain the learning outcomes of the course. Maximum 10 items.

1. Comprehend the concept of “digital finance”.
2. Be aware of the new financial tools and systems of the digital era.
3. Have a knowledge about DeFi, DEX, cryptocurrencies, tokens and their implications in financial system and economy.
4. Understand the use of blockchain technology in finance.
5. Be able to compare and contrast traditional financial system and digital financial system.
6. Have an insight about online financial trading platforms, digital banking and, mobile applications and how to use them.
7. Be aware of the possible risks that digitalization brings and know how to manage them.

Textbook(s)

List the textbook(s), if any, and other related main course materials.

Author(s)	Title	Publisher	Publication Year	ISBN
Hines, B. (2020).	Digital finance: Security tokens and unlocking the real potential of blockchain.	John Wiley & Sons.		

Reference Books

List the reference books as supplementary materials, if any.

Author(s)	Title	Publisher	Publication Year	ISBN
Azarenkova, G., Shkodina, I., Samorodov, B., & Babenko, M. (2018).	The influence of financial technologies on the global financial system stability. <i>Investment Management & Financial Innovations</i> , 15(4), 229.			
Fu, P. (2023).	Research on the Impact of Digital Finance on the Financing Constraints of SMEs. In <i>International Conference on Decision Science & Management</i> (pp. 445-451). Springer, Singapore.			
Guo, C., Wang, X., & Yuan, G. (2021).	Digital finance and the efficiency of household investment portfolios. <i>Emerging Markets Finance and Trade</i> , 1-15.			
Joshi, V. C. (2020).	Digital Finance, Bits and Bytes. Springer Books.			
Nadini, M., Alessandretti, L., Di Giacinto, F., Martino, M., Aiello, L. M., & Baronchelli, A. (2021).	Mapping the NFT revolution: market trends, trade networks, and visual features. <i>Scientific reports</i> , 11(1), 1-11.			
Patrickson, B. (2021).	What do blockchain technologies imply for digital creative industries?. <i>Creativity and Innovation Management</i> , 30(3), 585-595.			
Phadke, S. (2020).	FinTech future: the digital DNA of finance. Sage Publications Pvt. Limited.			

Teaching Policy

Explain how you will organize the course (lectures, laboratories, tutorials, studio work, seminars, etc.)

The main aim of this course is to give students an insight into how digitalization affects the financial system by especially focusing on the concepts of financial innovations such as the use of artificial intelligence in finance, electronic trading platforms, digital banking, digital payment systems, block chain technology and digital financial assets. Three hours of lecturing will be supported by an assignment. Recently published articles and academic studies will be provided to students in order to be discussed in the context of weekly topics. Students are expected to read these articles and be prepared for the discussions before each lecture.

Laboratory/Studio Work

Give the number of laboratory/studio hours required per week, if any, to do supervised laboratory/studio work, and list the names of the laboratories/studios in which these sessions will be conducted.

Computer Usage

Briefly describe the computer usage and the hardware/software requirements in the course.

Course Outline

List the topics covered within each week.

Week	Topic(s)
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1. Giriş: "Finansal okur yazarlık nedir?"
2. Traditional financial system and basic concepts of finance
3. Digital transformation process of financial system
4. New concepts: FinTech, big data, machine learning, AI, IoT, Blockchain
5. Electronic trading systems, smartphone/mobile applications of e-trading platforms
6. Digital Banking, Digital Payment Systems
7. Open Banking and Midterm Exam
8. Blockchain Technology and its implications in finance
9. Decentralized Finance (DeFi), Decentralized Exchanges (DEX)
10. Cryptocurrencies market and their implications on financial system
11. Tokenization, non-fungible digital assets: NFT, NFB and impacts on real assets such as stocks, real estate, bonds, and derivatives
12. Accounting of digital financial assets, laws and regulations
13. Managing risks in digital finance
14. Assignment Presentations and Revision

Grading Policy

List the assessment tools and their percentages that may give an idea about their relative importance to the end-of-semester grade.

Assessment Tool	Quantity	Percentage	Assessment Tool	Quantity	Percentage	Assessment Tool	Quantity	Percentage
Project	1	30	Midterm Exam	1	35	Final Exam	1	35

ECTS Workload

List all the activities considered under the ECTS.

Activity	Quantity	Duration (hours)	Total Workload (hours)
Attending Lectures (weekly basis)	14	3,00	42,00
Attending Labs/Recitations (weekly basis)			
Preparation beforehand and finalizing of notes (weekly basis)	14	1,00	14,00
Collection and selection of relevant material (once)	1	3,00	3,00
Self study of relevant material (weekly basis)	14	2,00	28,00
Homework assignments	1	5,00	5,00
Preparation for Quizzes			
Preparation for Midterm Exams (including the duration of the exams)	1	14,00	14,00
Preparation of Term Paper/Case Study Report (including oral presentation)			
Preparation of Term Project/Field Study Report (including oral presentation)	1	5,00	5,00
Preparation for Final Exam (including the duration of the exam)	1	14,00	14,00
TOTAL WORKLOAD / 25			125,00/25
ECTS Credit			5

Total Workloads are calculated automatically by formulas. To update all the formulas in the document first press CTRL+A and then press F9.

Program Qualifications vs. Learning Outcomes

Consider the below program qualifications determined in terms of learning outcomes of all the courses in the curriculum and capabilities. Look at the learning outcomes of this course given above. Relate these two using the Likert Scale by marking with X in one of the five choices at the right.

No	Program Qualifications	Contribution				
		0	1	2	3	4
1	Acquire detailed knowledge concerning the economic and legal environment in which the business entities operate.					4
2	Have profound theoretical background knowledge in basic business functions comprising organization and management, accounting, finance, marketing, and production and operations management.				3	
3	Obtain basic and intermediate level knowledge in quantitative techniques and methods that are predominantly used in business and management.			2		
4	Have more specific knowledge in one of the business functions (including the mastery of quantitative approaches) that he/she has chosen to specialize.				3	
5	Be able to apply the professional knowledge necessary to establish and/or run a business, or a department within a business entity.					4
6	Be able to collect, edit, analyze, and interpret the representative data by applying both qualitative and quantitative methods in order to identify and clearly define the business problems and to develop insight and solutions.			2		
7	Be able to adequately communicate upon analyses, findings, inferences, and recommendations with his/her superiors, team members, colleagues, and subordinates both in written and oral form.					4
8	Be thereby qualified to conduct research in business administration and management.			2		
9	Be appropriately trained to fulfill his/her responsibilities in teamwork both as a leader and an expert.				3	
10	Acquire the necessary skills to communicate effectively with the stakeholders of an organization so that he/she can become capable of analyzing the needs of the stakeholders and based on these analyses developing the objectives of the organization.					4
11	Gain self-evaluation skills to identify exactly his/her self-learning and self-improvement needs, being at the same time equipped with the capacity to follow advanced courses and degree studies.			2		
12	Gain the ability to evaluate the organization that he/she is affiliated with and the ability to assess the knowledge that he/she has acquired in a critical perspective.				3	
13	Be able to use English, which is the medium of instruction in the department, at least in European Language Portfolio B1 General Level.					4
14	Be able to use information technologies applicable to business administration and management at European Computer Usage License Basic Level.			2		
15	Be directed towards the behavioral patterns and responsibilities of a business administrator in terms of quality awareness, occupational safety and health, in-service training, environmental issues, social responsibilities, and social, organizational and business ethics.				3	
16	Be inclined to encourage innovation and continuous improvement within the organization in which he/she takes responsibilities.					4

Contribution Scale to a Qualification: 0-None, 1-Little, 2-Medium, 3-Considerable, 4-Largest

Part III New Course Proposal Information

State only if it is a new course

Is the new course replacing a former course in the curriculum?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Former Course's Code	Former Course's Name
Is there any similar course which has content overlap with other courses offered by the university?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Most Similar Course's Code	Most Similar Course's Name
Frequency of Offerings <i>Check all semesters that the course is planned to be offered.</i>	<input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer			
First Offering	Academic Year	2022	Semester	<input type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring