

YAŞAR UNIVERSITY FACULTY OF AGRICULTURAL SCIENCES AND TECHNOLOGIES DEPARTMENT OF AGRICULTURAL ECONOMICS COURSE SYLLABUS

Course Title	Course Code	Semester	Course Ho	our/Week	Yaşar Credit	ECTS
Sustainable Agri-Food Production and Supply Chain Management	FAST 0150	Fall / Spring / Summer	Theory 3	Practice 0	3	5
Course Type Compulsory	×	Elective				

Language of Instruction	English	
Level of Course	□ Associate Degree (Short Cycle) □ Undergraduate (First Cycle) □ Graduate (Second Cycle) □ Doctoral Course (Third Cycle)	
Special Pre-Conditions of the Course	-	

Course Coordinator	Assoc. Prof. Dr. Ruhan AŞKIN UZEL	Mail: ruhan.uzel@yasar.edu.tr Web:		
Course Instructor(s)	Assoc. Prof. Dr. Ruhan AŞKIN UZEL Prof. Dr. Arif HEPBASLI Prof. Dr. Aylin GUNEY Prof. Dr. Yigit KAZANCOGLU Assoc. Prof. Dr. Ayselin YILDIZ	Mail: ruhan.uzel@yasar.edu.tr arif.hepbasli@yasar.edu.tr aylin.guney@yasar.edu.tr yigit.kazancoglu@yasar.edu.tr ayselin.yildiz@yasar.edu.tr Web:		
Course Assistant(s)/Tutor (s)	Mail: Web:			
Aim(s) of the Course	This course aims to underline the fundamentals of agri-food industry by examining its various aspects such as sustainability and sustainable production, supply chain management, circular economy, food regulation, global warming, environmental concern, waste management.			
Learning Outcomes of the Course	On the successfully completion of this course, all students will have developed knowledge and understanding of: • European Union as a supranational organization. • The students in the agri-food production field will understand the EU Politics and public structure effect on sustainability. Food and other related issues are an important academic filed in the EU and this awareness level will expand their knowledge, open up their evaluations regarding EU and add academic EU background to their personal and academic perspectives. • Food Technology students will understand and evaluate the transnational integration of the subject which led the gradual Europeanization on national as well as issue-specific public spheres.			
Course Content	The course will be important information source for the EU politics, agri-food production systems, sustainability, supply chain management, waste treatment strategies, energy efficient production, etc.			

	COURSE OUTLINE/SCHEDULE (Weekly)					
Week	Topics	Preliminary Preparation	Methodology and Implementation (theory,practice, assignment etc)			
1	Introduction to EU, EU History and EU Policies	M. Cini, N. Pérez-Solórzano Borragán. 2016. European Union Politics. Fifth Edition, Oxford University Press, USA.	Theory			
2	Agri-Food Industry in the EU	Lang, Tim, and David Barling. "Food security and food sustainability: reformulating the debate." The Geographical Journal 178.4 (2012): 313-326.	Theory			
3	Rural Development in the EU or Common Agricultural Policy of the EU	C. Csáki, Z. Lerman. 2000. The Challenge of Rural Development in the EU Accession Countries. World Bank Publications, Bulgaria.	Theory			
4	Energy Consumption, Energy Policies of EU in Industry and Relevant Effects on Global Warming	F. Creutzig et al. 2014. Catching two European birds with one renewable stone: Mitigating climate change and Eurozone crisis by an energy transition. Renewable and Sustainable Energy Reviews, 38, pp. 1015–1028.	Theory			
5	EU Food Law Regulations	N. D. Fortin. 2016. Food Regulation: Law, Science, Policy, and Practice. John Wiley & Sons, USA.	Theory, practice			
6	Sustainability, Its Importance and Application to the Agri-Food Business	Crane, Andrew, and Dirk Matten. Business ethics: Managing corporate citizenship and sustainability in the age of globalization. Oxford University Press, 2016.	Theory, practice			
7	Traditional Technologies in EU Agri- Food Industry + Midterm Exam	Guerrero, Luis, et al. "Consumer-driven definition of traditional food products and innovation in traditional foods. A qualitative cross-cultural study." Appetite 52.2 (2009): 345-354.	Practice			
8	New Sustainable Technologies in EU Agri-Food Industry	Guerrero, Luis, et al. "Consumer-driven definition of traditional food products and innovation in traditional foods. A qualitative cross-cultural study." Appetite 52.2 (2009): 345-354.	Theory, practice			
9	Sustainability in Food Chains	Akkerman, Renzo, Poorya Farahani, and Martin Grunow. "Quality, safety and sustainability in food distribution: a review of quantitative operations management approaches and challenges." Or Spectrum 32.4 (2010): 863-904.	Theory			
10	The Management Components of Agri- Food Supply Chain Management	Chandrasekaran, N. and Raghuram, G. "Agribusiness Supply Chain Management". CRC Press, (2014), Boca Raton.	Theory, practice			
11	Individual Segments of Agri-Food Supply Chain Management	Solér, C., Bergstrom, K. and Shanahan, H. Green Supply Chains and the Missing Link between Environmental Information and Practice. Business Strategy and the Environment, (2010), 19, 14-25.	Theory, practice			
12	Comparison of Traditional and New Technologies in Terms of Productivity, R&D and Innovation for Sustainable Development in EU Agri-Food Industry	Olesen, Jørgen E., and Marco Bindi. "Consequences of climate change for European agricultural productivity, land use and policy." European journal of agronomy 16.4 (2002): 239-262.	Theory			

13	Adoption of Quality Management Policies for Sustainable Production and European Federation of Quality Management Innovation Management Model	Lambert, Douglas M., Martha C. Cooper, and Janus D. Pagh. "Supply chain management: implementation issues and research opportunities." The international journal of logistics management9.2 (1998): 1-20.	Theory
14	Industry 4.0 and Sustainability in Food Production	Rüßmann, Michael, et al. "Industry 4.0: The future of productivity and growth in manufacturing industries." Boston Consulting Group 9 (2015).	Practice, discussions
15	Final Exam	Exam	Exam

Required Course Material (s) /Reading(s)/Text Book (s)	The course materials are provided by the lecturer.
Recommended Course Material (s)/Reading(s)/Other	 Mari Elken, Expert group institutionalization and task expansion in European education policy-making, European Educational Research Journal, 2017, 147490411772040 Cathy-Austin Otekhile, Nahanga Verter, The Socioeconomic Characteristics of Rural Farmers and their Net Income in Ojo and Badagry Local Government Areas of Lagos State, Nigeria, Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis, 2017, 65, 6, 2037 N. D. Fortin. 2016. Food Regulation: Law, Science, Policy, and Practice. John Wiley & Sons, USA. Elzen, Boelie, Frank W. Geels, and Kenneth Green, eds. System innovation and the transition to sustainability: theory, evidence and policy. Edward Elgar Publishing, 2004. Cushen, M., et al. "Nanotechnologies in the food industry–Recent developments, risks and regulation." Trends in Food Science & Technology 24.1 (2012): 30-46. Park, Seongsoon, and Romas J. Kazlauskas. "Biocatalysis in ionic liquids–advantages beyond green technology." Current Opinion in Biotechnology 14.4 (2003): 432-437. Hamprecht, Jens, et al. "Controlling the sustainability of food supply chains." Supply Chain Management: An International Journal 10.1 (2005): 7-10. Ahumada, O. and Villalobos, J.R. Application of Planning Models in the Agri-Food Supply Chain: A Review. European Journal of Operational Research, (2009), 196, 1-20. Solér, C., Bergstrom, K. and Shanahan, H. Green Supply Chains and the Missing Link between Environmental Information and Practice. Business Strategy and the Environment, (2010), 19, 14-25. Olesen, Jørgen E., and Marco Bindi. "Consequences of climate change for European agricultural productivity, land use and policy." European journal of agronomy 16.4 (2002): 239-262. Lambert, Douglas M., Martha C. Cooper, and Janus D. Pagh. "Supply chain management: implementation issues and research opportunities." The international journal of logistics management9.2 (1998): 1-20. T. Lang, M. Heasman. 2015. Fo

ASSESSMENT			
Semester Activities/ Studies	NUMBER	WEIGHT in %	
Mid- Term	1	30	
Participation			
Quiz			
Assignment (s)			

Project/ Final Project/ Dissertation and Preparation		
Laboratory / Practice (Virtual Court, Studio Studies etc.)		
Field Studies (Technical Visits)		
Presentation/ Seminar	1	30
Final Examination/		
Other (Placement/Internship etc.)		
TOTAL		60
Contribution of Semester Activities/Studies to the Final Grade		60
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade		40
TOTAL		100

	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME OUTCOMES						
No	Programme Outcomes		Level of Contribution (1- lowest highes			ion :/ 5-	
		1	2	3	4	5	
1	The basic theoretical background produced by the fields of agriculture and food businesses and the branches of management science.		х				
2	Knowledge and skills on ecosystem, biodiversity and sustainable resource management, renewable energy, rural development, facility design, agri-food supply chain planning and management, and the use of smart and sensitive agriculture technologies.	х					
3	Examines the events and facts related to agricultural technologies with scientific methods and techniques by using the theoretical and applied knowledge; identify problems; analyzes environmental, social and economic aspects; develops solution proposals with scientific methods; validates, passes, and applies.					х	
4	Up-to-date information about agri-food sectoral practices and innovation-based agri-food entrepreneurship methods; experience in system analysis, design and solution creation and implementation for a complex real-life problem in at least one industry.	х					
5	Reaches data by using information technologies effectively, turns it into information, uses information and adopts lifelong learning with the knowledge and skills acquired in the field.				Х		
6	Carries out studies related to the field independently, takes responsibility in interdisciplinary teamwork; effectively shares the results of the study with experts or non-experts in oral and written environment.				Х		
7	Follows the knowledge in the field and communicates with colleagues by using the English language at the B1 level of the European Language Portfolio.			Х			
	Sufficient awareness of ethical values, agri-food law, universality of social rights, social justice, food safety and security, quality culture and protection of socio-cultural values, environmental protection, zero waste, occupational health and safety.				х		

ECTS (STUDENT WORKLOAD)				
ACTIVITIES	NUMBER	UNIT	HOUR	TOTAL WORKLOAD
Course Teaching Hour (14 weeks* total course hours)	14	week	3	42
Preliminary Preparation and finalizing of course notes, further self- study	14	week	1	14
Assignment (s)				
Presentation/ Seminars	1	number	21	21
Quiz and Preparation for the Quiz				
Mid- Term(s)	1	number	12	12
Project (s)				
Field Studies (Technical Visits, Investigate Visit etc.)	1	number	10	10

Practice (Laboratory, Virtual Court, Studio Studies etc.)				
Final Project/ Dissertation and Preparation	1	number	20	20
Final Examination				
Other (Placement/Internship etc.)				119
Total Workload				119/25
Total Workload/ 25				4.76
ECTS				5

ETHICAL RULES WITH REGARD TO THE COURSE (IF AVAILABLE)

The student must fulfill the basic course obligations determined and communicated by the course coordinator, and should not engage in behavior contrary to ethical rules (fake, distortion, plagiarism, republishing, etc.) in course-related activities. Suspicious situations will be reported and investigated by the relevant unit management and may lead to disciplinary action.

STUDENT WITH DISABILITIES OR SPECIAL NEEDS

Students with disabilities or special needs are encouraged to contact the instructor and the Unit for Student with Disabilities (http://eob.yasar.edu.tr/) for academic adaptations.

ASSESSMENT and EVALUATION METHODS:				
Final Grades will be determine	Final Grades will be determined according to the Yaşar University Associate Degree, Bachelor Degree and Graduate			
Degree Education and Examina	ation Regulation			
PREPARED BY/DATE Assoc. Prof. Dr. Ruhan AŞKIN UZEL / 24.12.2021				
UPDATED BY/DATE Assoc. Prof. Dr. Ruhan AŞKIN UZEL / 18.02.2022				
APPROVED BY/DATE Prof. Dr. Levent KANDILLER / 31.03.2022				