

UTL106 - INFORMATION SYSTEMS FOR TRADE - İktisadi ve İdari Bilimler Fakültesi - Uluslararası Ticaret ve Lojistik Bölümü

General Info

Objectives of the Course

The course on information systems in trade explains the importance of digitalization in international trade and logistics management. Examines the impact of information systems and technologies on business processes. Provides basic information on digital solutions that increase efficiency and competitiveness.

Course Contents

This course examines the transformation processes of technology based on Kevin Kelly's book The Great Technological Transformation. First, the concepts that form the basis of information systems and the dynamics of digitalization are discussed. 1. The Great Technological Transformation and Digitalization Processes Becoming, Cognition, Flow, Visualization, Access, Sharing, Filtering, Remix, Interaction, Monitoring, Querying, Starting Following this basic framework, the role of information systems in trade and logistics is discussed in detail. 2. Information Systems in Trade and Logistics E-commerce and digital platforms Information systems and automation in logistics Use of information technologies in international trade Electronic data interchange (EDI) and integration processes Global location systems and logistics management Enterprise resource planning (ERP) and supply chain management Changing information systems management process and sectoral transformations Challenges and security issues in information systems The course aims to enable students to evaluate information systems from a strategic perspective by combining theoretical knowledge with sectoral applications.

Recommended or Required Reading

1 Lojistik Bilgi Sistemleri ve Teknolojileri, Yazar : Ayşenur Uslu Neslihan Demirel Eren Özceylan Cihan Çetinkaya Yayınevi : İdeal Kültür Yayıncılık 2 Frederick BETZ: Teknolojik Yenilik Yönetimi, Tübitak Yayınları 3 Kevin KELLY: Büyük Teknolojik Dönüşüm, Türk Hava Yolları Yayınları 4 Martin FORD: Robotların Yükselişi, Kronik Kitap

Planned Learning Activities and Teaching Methods

Theoretical Explanation: Basic concepts and theoretical framework are explained through the book The Great Technological Transformation and related academic resources. Case Studies: The effects of information systems on trade and logistics processes are evaluated by examining real-world case studies. Interactive Discussions: Class discussions are held on current developments in digitalization, information technologies and international trade. Projects and Applications: Students prepare individual or group projects that include information systems in e-commerce, logistics and foreign trade. Simulations and Digital Tools: Relevant software and simulations are used to understand the functioning of information systems. Guest Speakers and/or Technical Trips: Practical information is provided on the role of information systems in trade and logistics management by inviting experts from the sector and/or by seeing the studies on site.

Recommended Optional Programme Components

Within the scope of this course, it is recommended that students read the following additional resources and focus on specific research topics in order to gain a deeper understanding of the topics. Reading List: Kevin Kelly - The Great Technological Transformation Leading Digital - Using Technology for Transformation-Andrew Mcfee Erik Brynjolfsson & Andrew McAfee - The Second Machine Age Big Data @ Work - Thomas Davenport Max Tegmark - Life 3.0 Klaus Schwab - The Fourth Industrial Revolution Don Tapscott - The Blockchain Revolution Research Topics: 1. The effects of digitalization on international trade and logistics 2. The use of artificial intelligence and machine learning in trade and logistics management 3. Information systems and data management in e-commerce platforms 4. Integration of blockchain technology into supply chain and logistics processes 5. Electronic data interchange (EDI) and digital transformation in global supply chains 6. The role of big data and analytics in trade strategies Cybersecurity and information systems management

Instructor's Assistants

Sümeyye Altunay NURAY

Presentation Of Course

The course is conducted with the support of theoretical explanations and practical studies. After the conceptual framework is created through the book The Great Technological Transformation, case studies, sectoral studies and digital applications for information systems in trade and logistics are discussed. Interactive discussions, case studies and project-based learning methods are used to help students better understand the subjects.

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Volkan Han

Program Outcomes

1. Ability to analyze the strategic role of digitalization and information systems in international trade and logistics management.
2. Identify and evaluate modern information technologies used in e-commerce, supply chain management and logistics.
3. Ability to critically interpret the effects of digital transformation processes on businesses and global trade.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Research-reading	None	Narrating and Discussing	The Concepts of Information and system as Strategic Resources	None
2	Research-Reading	None	Narrating and Discussing	The Inevitable: Long-Term Logic of Technological Change	None
3	Research-Reading	None	Narrating and Discussing	Becoming & The Rise of the Access Economy	None
4	Research-Reading	None	Narrating and Discussing	Cognifying: The Spread of Artificial Intelligence	None
5	Research-Reading	None	Narrating and Discussing	Screening: The Power of Screens	None
6	Research-Reading	None	Narrating and Discussing	Sharing: Platform Economy and Network Effects	None
7	Research-Reading	None	Narrating and Discussing	Filtering: Algorithms and Choice	None
8				Midterm	
9	Research-Reading	None	Narrating and Discussing	Remixing: Recombination of Digital Content	None
10	Research-Reading	None	Narrating and Discussing	Virtualizing: Virtual and Augmented Reality	None
11	Research, system development	Computer	Explanation-Application	Digital Decision Support Systems	computer
12	Research, system development	Computer	Explanation-Application	Information Systems in E-Commerce and Digital Business Models	Computer
13	Research, system development	Computer	Explanation-Application	Information Systems in E-Commerce and Digital Business Models	Computer
14	Research, system development	Computer	Explanation-Application	Information Systems in Logistics and Supply Chain Integration	Computer
15				Final	

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	13	3,00
Vize	1	1,00
Final	1	1,00
Ödev	2	10,00
Final Sınavı Hazırlık	3	8,00
Ara Sınav Hazırlık	3	7,00
Proje	2	14,00
Araştırma Sunumu	1	12,00

Assesments

Activities	Weight (%)
Ara Sınav	40,00
Final	60,00

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15
L.O. 1	4	4	4	4	4	2	5	5	5	5	5	5	5	5	5
L.O. 2			5	5	5	5	5	5	5	5	5	5	5	5	5
L.O. 3			3	1	4	4	4	4	4	4	4	4	5	5	5

Table :

- P.O. 1 :** Uluslararası ticaret, işletme yönetimi ve tedarik zinciri konusunda gerekli olan bilgi birikimi
- P.O. 2 :** Türk hukuk sistemi ile dış ticaret mevzuatına hâkim olma
- P.O. 3 :** Temel istatistik ve karar almada kullanılan modelleme yöntemlerine hâkim olma
- P.O. 4 :** İnsan ilişkileri, örgütsel davranış ve iletişim konusunda etkin olma
- P.O. 5 :** Çalıştığı sektörle ilgili üretim yönetimi ve süreçleri ile ilgili bilgi sahip olma
- P.O. 6 :** Uluslararası ekonomik gelişmeleri takip etme
- P.O. 7 :** Ulusal ve uluslararası pazar pozisyonlarında yer alabilme
- P.O. 8 :** Alanıyla ilgili finansal kararlar verebilme
- P.O. 9 :** Uluslararası ticari organizasyonlar ile iletişim kurabilme
- P.O. 10 :** Alanıyla ilgili muhasebeleştirme işlemlerini ve finansal tabloları hazırlayabilme ve yorumlayabilme
- P.O. 11 :** Uluslararası pazarlama stratejilerini, faaliyet gösterdiği pazar koşulları çerçevesinde değerlendirebilme ve uyarlayabilme
- P.O. 12 :** Farklı disiplinlerle uyumlu çalışabilme
- P.O. 13 :** Türkiye ve Dünya tarihinin yanı sıra kültür ve coğrafya hakkında ayrıntılı bilgiye sahip olur.
- P.O. 14 :** Sanatsal, kültürel ve sportif konulara ilişkin bireysel yeteneklerini geliştirir.
- P.O. 15 :** Sözlü ve yazılı etkin iletişim kurar; bir yabancı dili en az. Avrupa Dil Portföyü B1 genel düzeyinde kullanır.
- L.O. 1 :** Dijitalleşme ve bilgi sistemlerinin uluslararası ticaret ve lojistik yönetimindeki stratejik rolünü analiz edebilme.
- L.O. 2 :** E-ticaret, tedarik zinciri yönetimi ve lojistikte kullanılan modern bilişim teknolojilerini tanıma ve değerlendirme.
- L.O. 3 :** Dijital dönüşüm süreçlerinin işletmeler ve küresel ticaret üzerindeki etkilerini eleştirel bir bakış açısıyla yorumlayabilme.