Course Syllabus

Code - Course Title	**EİK524 - New Technologies in Working Life**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DOÇ. DR. SEDA TEKELİ

Mode of Delivery	The course is delivered through face-to-face
Place of Delivery	On Campus
Used Educational Platforms	Face-to-face
Prerequisites	There are no prerequisites and other co-requisities fort his course.
Courses Recomended	There are no recommend optional programme components.
Recommended Resources	Bozkurt, V. (2000). Enformasyon Toplumu ve Türkiye, Sistem Yayıncılık: İstanbul.Castells, M. (1996). The Rise of Network Society, Wiley-Blackwell: London.Castells, M. (2006) Ağ Toplumunun Yükselişi Enformasyon Çağı: Ekonomi Toplum ve Kültür 2. Cilt, İstanbul Bilgi Üniversitesi Yayınları, İstanbul.Castells, Manuel (2007). Enformasyon Çağı: Toplum Ekonomi, Kültür Cilt 3: Bin Yılın Sonu, Bilgi Üniversitesi, İstanbul.Castells, Manuel (2008). Enformasyon Çağı:Ekonomi,Toplum ve Kültür, Cilt 1:Ağ Toplumunun Yükselişi,Bilgi Üniv.Yay.,İstanbul.
Work Placement	There is no need for work placement or internship in the scope of this course.
Aims of the Course	The aim of this course is to critically examine the effects of new technologies and digital transformation on working life, employment structures, work organization, and industrial relations. The course explores how technological developments, including Industry 4.0, artificial intelligence, automation, robotics, big data, and digital platforms, affect labour demand, occupational transformation, skill requirements, working conditions, and inequalities in the labour market. It also aims to enable students to analyse theoretical approaches and current research on technological transformation, evaluate the opportunities and risks it creates for workers and employment relations, and develop evidence-based policy recommendations.

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1	**LO-1**	Technology; definition, technological innovations and Industrial Revolutions	Lecture, Question & Answer, Discussion, Brain Storming
Week - 2	**LO-2**	1. Industrial Revolution; iron and steel and textile production with the participation of machines in production, national and international borders of production	Lecture, Question & Answer, Discussion, Brain Storming
Week - 3	**LO-2**	2. Industrial Revolution; steel, railways, oil, electrical and chemical techniques	Lecture, Question & Answer, Discussion, Brain Storming

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 4	LO-2	3. Industrial Revolution; digital revolution, the use of electronics and the rise of information technologies	Lecture, Question & Answer, Discussion, Brain Storming
Week - 5	LO-2	4. Industrial Revolution; The production of robots, the development of artificial intelligence, Industry 4.0	Lecture, Question & Answer, Discussion, Brain Storming
Week - 6	LO-3	Microeconomics of Innovation: Firm theory; innovation and firm size, innovation and firm strategy	Lecture, Question & Answer, Discussion, Brain Storming
Week - 7	LO-3	Macroeconomics of Innovation: Technology, Growth and Globalization; national innovation systems, technology and economic growth	Lecture, Question & Answer, Discussion, Brain Storming
Week - 8	LO-3	Macroeconomics of Innovation: Technology Growth and Globalization; Innovation and International Trade Performance, Technology Development and Dissemination	Lecture, Question & Answer, Discussion, Brain Storming
Week - 9	LO-3	Innovation and Public Policies; Information Society and Employment Technology	Lecture, Question & Answer, Discussion, Brain Storming
Week - 10	LO-3	New Technologies and organizations; technology and micro and macro dimensions, human resources management and effects on human capital, entrepreneurship, micro credit, poverty and income distribution	Lecture, Question & Answer, Discussion, Brain Storming
Week - 11	LO-4	Innovations, New Technologies and New Ways of Working; Participation in technology and workforce	Lecture, Question & Answer, Discussion, Brain Storming
Week - 12	LO-4	The effects of new technologies on employment; working conditions of disadvantaged groups, their effects on employment and unemployment	Lecture, Question & Answer, Discussion, Brain Storming
Week - 13	LO-4	Employment Creation Process and Economic Results, Micro loans, entrepreneurship etc.	Lecture, Question & Answer, Discussion, Brain Storming
Week - 14	LO-4	Employment Outlook in Technology, Growth and Globalization Process; Global production Networks, global unemployment, poverty and social exclusion	Lecture, Question & Answer, Discussion, Brain Storming

Learning Outcomes

#	Learning Outcome
1	Defines and classifies the basic concepts of new technologies.
2	It develops a scientific perspective on the technological revolutions that have taken place since the Industrial Revolution.

Learning Outcomes

#	Learning Outcome
3	Define the relationship between new technologies and working life conceptually and analyze the economic and social policies regarding the problems in this field.
4	Defines the relationship between new technologies and labor markets conceptually and analyzes the policies related to the problems in this field.

Sustainable Development Goals

✓ Quality Education ✓ Decent Work and Economic Growth ✓ Industry, Innovation and Infrastructure ✓ Reducing Inequalities

Course Theme

✓ Innovation Skills

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

✓ Open-Ended Test ✓ Homework ✓ Presentation