

Dentistry			
Bachelor	TR-NQF-HE: Level 6	QF-EHEA: First Cycle	EQF-LLL: Level 6

Course Introduction and Application Information

Course Code:	UNI333		
Course Name:	Man in the Age of Manufacturer Artificial Intelligence		
Semester:	Spring		
Course Credits:	<div>ECTS</div> <div>5</div>		
Language of instruction:	Turkish		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	University Elective		
Course Level:	<div>BachelorTR-NQF-HE:6. Master`s DegreeQF-EHEA:First CycleEQF-LLL:6. Master`s Degree</div>		
Mode of Delivery:	E-Learning		
Course Coordinator:	Doç. Dr. ŞEBNEM ÖZDEMİR		
Course Lecturer(s):	Şebnem Özdemir		
Course Assistants:			

Course Objective and Content

Course Objectives:	<div>1. Understand the fundamental concepts and principles of artificial intelligence and its impact on human society.</div> <div>2. Analyze the ethical, social, and cultural implications of generative artificial intelligence.</div> <div>3. Explore the potential benefits and risks of AI in various domains, including art, literature, music, and communication.</div> <div>4. Develop critical thinking skills to evaluate the role of AI in shaping human identity, creativity,</div>
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	and relationships. 5. Foster a multidisciplinary perspective
Course Content:	1. Introduction to Artificial Intelligence: History, concepts and types of artificial intelligence. 2. Generative Artificial Intelligence: Overview, applications and examples. 3. Ethical Considerations: Privacy, bias, accountability and transparency in AI systems. 4. AI and Human Creativity: Exploring the impact of AI on the creation of art, literature and music. 5.Social Impacts of AI: Automation, employment, inequality and social transformation. 6.AI and the Future

## Learning Outcomes

The students who have succeeded in this course;

- 1) Students will be able to critically analyze the ethical and societal implications of generative artificial intelligence.
- 2) Students will develop an understanding of the role of AI in shaping human creativity and communication.
- 3) Students will evaluate the impact of AI on human identity, relationships, and decision-making processes.
- 4) Students will gain insight into the potential risks and benefits of AI in various domains.
- 5) Students will apply interdisciplinary perspectives to assess the future implications of AI on society.

## Course Flow Plan

Week	Subject	Related Preparation
1)	Introduction to Artificial Intelligence	
2)	The Ethics of AI: Privacy and Bias	
3)	Generative AI and Human Creativity	
4)	ChatGpt, Bard, LLMA as a generative AI	
5)	ChatGpt, Bard, LLMA as a generative AI	
6)	Midjourney, Stable Diffusion, Dall-e as a Generative AI	
7)	Midjourney, Stable Diffusion, Dall-e as a Generative AI	
8)	Mid-Term Week	
9)	Artificial intelligence with different industry applications: Music Production	
10)	Artificial intelligence with different industry applications: 3D design elements	
11)	Artificial intelligence with different industry applications: Animation of Images	
12)	Generative AIs and computer-based manipulation	

13)	Coding and development processes with ChatGPT	
14)	AI in Music and Entertainment	
15)	Future Implications and Conclusion	
16)	Final Exam	

## Sources

Course Notes / Textbooks:	1. "The AI Does Not Hate You: Superintelligence, Rationality, and the Race to Save the World" by Tom Chivers 2. "Artificial You: AI and the Future of Your Mind" by Susan Schneider
References:	1. Bostrom, N. (2016). Superintelligence: Paths, Dangers, Strategies. 2. Harari, Y. N. (2018). 21 Lessons for the 21st Century.

## Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5
Program Outcomes					
1) Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.					
2) Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.					
3) Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge of disciplines in the field of health, uses it by analyzing and synthesizing it.					
4) Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.					
5) Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.					
6) Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.					
7) Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.					

8) Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.	1	2	3	4	5
9) By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.					
10) During dental practice, in cases such as abuse and addiction, performs the treatment by exhibiting the behaviors required by social ethics and legal rules, and collects and records the relevant data.					
11) Uses basic and current knowledge in the field of dentistry during professional practice for the benefit of society within the framework of national values and country realities.					
12) In natural disasters and emergency cases, takes the protective measures required by the dentistry profession; performs professional practices that benefit patients and society					
13) Generates ideas regarding health policy in dentistry, prioritizes individual and public health, and carries out preventive and therapeutic medical practices within the framework of scientific, ethical, and quality processes.					
14) Differentiates the signs and symptoms commonly encountered in the dentistry profession, makes a treatment plan and refers when necessary, and manages diseases and clinical situations regarding their urgency and patient priority.					
15) Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.					

### Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	Has basic and up-to-date knowledge in the field of dentistry, follows scientific publications, and applies evidence-based data to his/her professional practice.	
2)	Knows well and effectively uses devices, tools, and materials specific to diagnosis and treatment in the field of dentistry.	
3)	Evaluates the knowledge in the field of dentistry critically, integrates it with the knowledge	

	of disciplines in the field of health, uses it by analyzing and synthesizing it.	
4)	Produces projects related to the field of dentistry, can work with other health disciplines, takes part as a member of the research team and evaluates and reports the results obtained at a scientific level.	
5)	Uses information that will contribute to the dentistry profession during practice, takes responsibility, and produces solutions in unforeseen situations.	
6)	Shares, compares, and exchanges dental knowledge with professional colleagues in social and scientific environments in written, verbal, and visual forms.	
7)	Within the framework of social, scientific, and ethical values including patient privacy, communicates with patients and their relatives, knows all the characteristics of the patient, and recommends the most appropriate treatment with a patient-centered approach.	
8)	Follows technological developments, participates in national and international studies, and shares and presents own observations, experiences, and research to further advance dental practices.	
9)	By adopting the principle of lifelong learning throughout the dentistry profession, follows current evidence-based dental knowledge and uses it during his professional practice.	
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15)	Can assume the leadership responsibility of the team he/she works for, manage it following scientific criteria, and support the professional development of the team.	

## Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution

Midterms	1	% 45
Final	1	% 55
<b>total</b>		<b>% 100</b>
PERCENTAGE OF SEMESTER WORK		% 45
PERCENTAGE OF FINAL WORK		% 55
<b>total</b>		<b>% 100</b>

### Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	14	42
Homework Assignments	1	45
Final	1	50
<b>Total Workload</b>		<b>137</b>