

## SYLLABUS Vocational School of Higher Education

Vocational School of Higher Education									
Cour	ourse Code Course Title Credit			Credits	ECTS Value				
TE	OS-002	Artificial Intelligence and Automation	n in Healthcare	2-0-2	5				
Prerequisite Courses:		None							
Course Language:		Turkish	Online						
Course Type and Level:		Elective / 2st Year / Spring Semester							
Instr	uctor's Ti	tle, Name, and Surname	Course Hours	Office Hours	Contact				
		Lecturer Adem BİLGİN	2	Monday 10:00- 12:00	00- adembilgin@cag.edu.				
Course Coordinator:		Lecturer Adem BİLGİN							
Cour	se Object	tives							
					Relations				
mes	Upon sud	ccessful completion of this course, the s	Program Outcomes	Net Contribution					
Outco	1	Defines and explains the concepts of automation, as well as their application	1&8	5 & 5					
) guit	2	Compares different health technologie and evaluates their performance.	2&5&8	5 & 4					
Learr	3	Applies and analyzes artificial intellige technologies using case studies and s	2&5&6	5					
Course Learning Outcomes	4	Designs artificial intelligence and auto improving healthcare processes and crecommendations.	2&7	5 & 4					
	5	Interprets and evaluates the ethical, le artificial intelligence and automation a	3&9&10	5					
Course Content:		Within the scope of this course, students will be introduced to and able to explain the concepts of artificial intelligence and automation in the context of their applications in healthcare. They will apply and analyze clinical decision support systems and data analytics processes through practical examples. Additionally, students will interpret and evaluate the ethical, legal, and social dimensions of digitalization in healthcare. By comparing various digitalization applications and automation systems, they will develop the ability to synthesize information simed at improving healthcare processes.							

## Course Schedule (Weekly Plan)

information aimed at improving healthcare processes...

Week	Topic	Preparation	Teaching and Learning Strategies
1	Course Introduction and Syllabus Overview	None	Lecture, Expectation Mapping (Padlet)
2	Introduction to Concepts of Artificial Intelligence and Automation	Research on the fundamental concepts of artificial intelligence and automation.	Lecture, Discussion, Brainstorming
3	Applications of Artificial Intelligence in the Healthcare Sector	Examination of examples of artificial intelligence applications in clinical,	Lecture, Case Study Review



Automation Systems and Healthcare Processes  Reading and analysis of articles on the impact of automation on workflow processes.  Clinical Decision Support Systems (CDSS)  Clinical Decision Support Systems (CDSS)  Data Analytics and Health Data Management  Artificial Intelligence Algorithms and Healthcare Applications  Midterm Exam  Midterm Exam  Digital Health and E-Health Applications  Improving Business Processes through Automation in health Methods.  Al-Supported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Bitical, Legal, and Social Dimensions  Ethical, Legal, and Social Dimensions  Sector Presentation on Artificial Intelligence and automation in healthcare in Healthcare in Healthcare and tender digital health applications supported by artificial intelligence and automation in healthcare in Healthcare in Healthcare and tender digital health applications supported by artificial intelligence and automation in healthcare in Healthcare in Healthcare and tender digital health applications supported by artificial intelligence and automation in healthcare and tender digital health applications supported by artificial intelligence and automation in healthcare and tender digital health applications supported by artificial intelligence and automation in healthcare.  Sector Presentation on Artificial Intelligence in Healthcare  15 General review  Course Resources  Textbook:  Applications Supported Dypulamalara-Özel Sebetci 2023 Sgdjik Arapay Zeka ve Dijital Hastaneler - Firat Seyhan ve Sezer Korkmaz'in 2024	administrative, and							
articles on the impact of automation on workflow processes.  Clinical Decision Support Systems (CDSS)  Data Analytics and Health Data Management  Artificial Intelligence Algorithms and Healthcare Applications  Midterm Exam  Midterm Exam  Midterm Exam  Might Health and E-Health Applications  Improving Business Processes through Automation  ALSupported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Ethical, Legal, and Social Dimensions  Ethical, Legal, and Social Dimensions  Full Future Trends and Innovative Applications  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on December of Sector Presentation on Methods  Sector Presentation on Methods  Sector Presentation on Methods  Sector Presentation on Methods  Sector Presentation on Methods  Sector Presentation on Methods of Sector Presentation on Methods  Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector Presentation on Methods of Sector		Automation Systems and	Healtheare				Group Discussion, Coss	
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Decision Support Systems (CDSS) examples and their purposes. Short reading on health data and data analysis methods.  Artificial Intelligence Algorithms and Healthcare Applications  Research on the concepts of machine learning and deep learning.  Written Exam  Midterm Exam  Digital Health and E-Health Applications  Improving Business Processes through Automation  Al-Supported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Ethical, Legal, and Social Dimensions  Ethical Legal, and Social Dimensions  Ethical and Innovative Applications  Research on examples of automation of E-Nabiz and other digital health applications.  Research on examples of automation in health management toroesses. Investigation of diagnosis and treatment applications supported by artificial intelligence and automation in healthcare.  Ethical, Legal, and Social Dimensions  Reading on ethical and legal regulations related to artificial intelligence and automation in healthcare.  Presentation, Discussion  Case Presentation, Discussion  Discussion  Discussion, Role-Playing, Evaluation  Examination of E-Nabiz and other digital health applications.  Case Presentation, Discussion  Discussion, Role-Playing, Evaluation  Fresentation, Discussion  Case Presentation, Discussion  Discussion  Presentation, Discussion  Examination of E-Nabiz and other digital health applications.  Sector Presentation on Artificial Intelligence in Healthcare  General review  Case Presentation, Brainstorming, Group Discussion  Written exam  Written exam  Written exam  Written exam  Written exam  Written exam  Written exam  Written exam		Olimia al Daniaia a Como ant	0	D00)	_		O A b i -	
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Data Analytics and Health Data Management  Artificial Intelligence Algorithms and Healthcare Applications  Research on the concepts of machine learning.  Midterm Exam  Digital Health and E-Health Applications  Improving Business Processes through Automation  AL-Supported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Ethical, Legal, and Social Dimensions  Future Trends and Innovative Applications  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  General review  Yapay Zeka lie Sağlık – Sistemlerden Uygulamalara-Özel Sebetci 2023 Saglıkta Yapay Zeka ve Dijital Hastaneler - First Seyhan ve Sezer  Written Exam  Lecture, Practical Analysis, Group Work  Mendson Example, Data Analysis, Group Work  Lecture, Practical Application, Discussion  Lecture								
Artificial Intelligence Algorithms and Healthcare Applications  Artificial Intelligence Algorithms and Healthcare Applications  Research on the concepts of machine learning and deep learning.  Written Exam  Midterm Exam  Digital Health and E-Health Applications  Improving Business Processes through Automation  Al-Supported Diagnosis and Treatment Methods  Ethical, Legal, and Social Dimensions  Ethical, Legal, and Social Dimensions  Ethical, Legal, and Social Dimensions  Ethical rerements and Innovative Applications  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Written Exam  Course Resources  Yapay Zeka lle Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Firat Seyhan ve Sezer		Data Analytics and Healt	h Data				Hands-on Evample Data	
Artificial Intelligence Algorithms and Healthcare Applications  Research on the concepts of machine learning and deep learning.  Written Exam  Midterm Exam  Digital Health and E-Health Applications  Improving Business Processes through Automation  Al-Supported Diagnosis and Treatment Methods  Al-Supported Diagnosis and Treatment Methods  Ethical, Legal, and Social Dimensions  Ethical, Legal, and Social Dimensions  Future Trends and Innovative Applications  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Course Resources  Yapay Zeka ile Sağlık – Sistemlerden Uygulamalara-Özel Seyban ve Sezer  Yapay Zeka ile Sağlık – Sistemlerden Uygulamalara-Özel Seyban ve Sezer	6	-	n Data					
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Improving Business Processes through Automation   Research on examples of automation in health management processes.	10						Hands-on Example	
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Methods		Al-Supported Diagnosis and Treatment			•	Case Presentation,		
Ethical, Legal, and Social Dimensions  Ethical, Legal, and Social Dimensions  Reading on ethical and legal regulations related to artificial intelligence and automation in healthcare.  Future Trends and Innovative Applications  Review of current articles and reports.  Presentation, Brainstorming, Group Discussion  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  General review  General review  Structured Lecture, Classroom Discussion  Written exam  Written exam  Written exam  Veritten exam  Veritten exam  Veritten exam  Sağlıkta Yapay Zeka İle Sağlık – Sistemlerden Uygulamalara-Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer	12						Discussion	
Ethical, Legal, and Social Dimensions  Reading on ethical and legal regulations related to artificial intelligence and automation in healthcare.  Future Trends and Innovative Applications  Sector Presentation on Artificial Intelligence in Healthcare  15 General review  16 General review  Textbook:  Reading on ethical and legal regulations related to artificial intelligence and automation in healthcare.  Review of current articles and reports.  Presentation, Brainstorming, Group Discussion  Industry Perspective Guest Speaker  and other digital health applications.  Structured Lecture, Classroom Discussion  Written exam  Written exam  Veritten exam  Yapay Zeka Île Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer								
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Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence in Healthcare  Sector Presentation on Artificial Intelligence and other digital health applications.  Structured Lecture, Classroom Discussion  Written exam  Written exam  Course Resources  Yapay Zeka İle Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer	14				and reports.		O	
15 in Healthcare and other digital health applications.  16 General review Structured Lecture, Classroom Discussion  17 Final Exam Written exam  18 Final Exam  Course Resources  Yapay Zeka İle Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer		Sector Presentation on Artificial Intelligence		and other digital health				
General review  Structured Lecture, Classroom Discussion  Written exam  Written exam  Written exam  Course Resources  Yapay Zeka İle Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer	15	in Healthcare				•		
Classroom Discussion Written exam  Written exam  Written exam  Course Resources  Yapay Zeka İle Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer		General review			applica	itions.	Structured Lecture	
18 Final Exam  Course Resources  Yapay Zeka İle Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer	16	16						
Course Resources  Yapay Zeka İle Sağlık – Sistemlerden Uygulamalara- Özel Sebetci 2023 Sağlıkta Yapay Zeka ve Dijital Hastaneler - Fırat Seyhan ve Sezer	17	17 Final Exam					Written exam	
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NOINIIdZ III 2024	Textboo	ok:					t Seyhan ve Sezer	
	NOIKITIAZ III 202			2024				
Recommended References: Sağlıkta Dijital Yaklaşımlar -Doç. Dr. Özlem Özer ve Doç. Dr. Okan Özkan	er ve Doç. Dr. Okan Özkan							
Course Assessment and Evaluation								
Activities Number Percentile Notes		Activities	Number	Perc	entile Notes			



Midterm Exam		%40				
Final 1		%60				
ECTS Table						
Content	Number	Hours	Total			
Course Duration	14	2	28			
Out-of-Class Study	14	3	42			
Midterm Exam (Midterm Exam Du Midterm Exam Preparation)	1	30	30			
Final Exam (Final Exam Duration Exam Preparation)	1	40	40			
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	140÷30=4,6					
	5					