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| ***ÇAĞ UNIVERSITY******FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES*** |
| **Code** | **Course Title** | **Credit** | **ECTS** |
| **MAN-452**  | **Artificial Intelligence** | **3 (3-0-3)** | **6** |
| **Prerequisites** | **None** |
| **Language of Instruction** | English | **Mode of Delivery**  | Online |
| **Type and Level of Course** | Elective /4. Year /Spring |
| **Lecturers** | **Name(s)**  | **Lecture Hours** | **Office Hours** | **Contacts** |
| **Course Coordinator** | Assist. Prof. Emre Kadir ÖZEKENCİ | Monday13.25-15.45 | Friday10.00-16.00 | ekadirozekenci@cag.edu.tr |
| **Course Objective** | This course aims to provide students with a foundational understanding of artificial intelligence (AI) concepts, techniques, and applications. Students will explore key AI topics, including machine learning, neural networks, natural language processing, and computer vision. The course also examines ethical considerations, AI-driven decision-making, and the impact of AI on industries and society. Through hands-on projects and case studies, students will develop problem-solving skills and gain practical experience in applying AI tools and algorithms to real-world challenges. |
| **Learning Outcomes of the Course** |  | **Students who have completed the course successfully should be able to** | **Relationship** |
| **Prog. Output** | **Net Effect** |
| 1 | understand basic artificial intelligence concept, the advantages and disadvantages of artificial intelligence technology  | 2 | 5 |
| 2 | analysis the main differences between artificial intelligence technology and other form of technology in global business environment | 9 | 4 |
| 3 | states the relevant ethical and privacy issues related to artificial intelligence  | 4 | 5 |
| 4 | analysis the real-world opportunities and challenges on artificial intelligence technology in the context of economy | 5 | 4 |
| **Course Description:** The fundamentals of artificial intelligence technology and application in changing business world will be covered in this course. The modern application and its examples, basic concepts, key challenges, and their solution to help understand artificial intelligence technology will be investigated in the context of this course. In parallel to this, a new approach such as Chat GPT will be explained and discussed. Also, the philosophy and ethical issues about artificial intelligence technology will be examined in this course. Finally, the students will have chance to find out opportunities and challenges on artificial intelligence technology in global economy by the help of real-world examples |
| **Course Contents: (Weekly Lecture Plan)** |
| **Weeks** | **Topics** | **Preparation** | **TeachingMethods** |
| **1** | Introduction and Meeting | - | Lectures & Discussion |
| **2** | Introduction to artificial intelligence  | Textbook | Lectures & Discussion |
| **3** | Basic terms, concepts and history of artificial intelligence technology | Textbook | Lectures & Discussion |
| **4** | Technical concepts of artificial intelligence technology  | Textbook |  Lectures& Discussion |
| **5** | ChatGPT  | Textbook | Lectures & Discussion |
| **6** | Case Study | Movies | Discussion |
| **7** | Midterm | - | Exam |
| **8** | Deep Learning | Textbook | Lectures & Discussion |
| **9** | Case Study | Textbook | Lectures & Discussion |
| **10** | The overview of artificial intelligence applications  | Textbook | Lectures & Discussion |
| **11** | Artificial intelligence applications in business environment supported by real world example  | Textbook | Lectures & Discussion |
| **12** | Philosophy and ethics of artificial intelligence | Textbook | Lectures & Discussion |
| **13** | The future of artificial intelligence  | Textbook | Discussion |
| **14** | Final | - | Exam |
| **REFERENCES** |
| **Textbook** | Stuart Russell, Artificial Intelligence: A Modern Approach, 4th edition, Pearson.  |
| **Course Notes** | Will be distributed as case studies or instructions for assignments through the Instructor’s webpage: <https://www.cag.edu.tr/tr/akademik-kadro/154/dosyalar> |
| **Relatedlinks** |  |
| **Recommended Reading** | Stuart Russell, [İnsanlık için Yapay Zekâ: Yapay Zekâ ve Kontrol Problemi](https://www.pandora.com.tr/kitap/insanlik-icin-yapay-zek%C3%A2-yapay-zek%C3%A2-ve-kontrol-problemi/796653), Buzdağı yayınevi, 08/2021 |
| **MaterialSharing** | Articles |
| **ASSESSMENT METHODS** |
| **Activities** | **Number** | **Effect** | **Notes** |
| ***Effect of The Midterm Exam*** | **1** | **40%** |  |
| ***Effect of The Final Exam*** | **1** | **60%** |  |
| ***Total***  |  | **100%** |  |
| **ECTS TABLE** |
| **Contents** | **Number** | **Hours** | **Total** |
| **Hours in Classroom** | **14** | **3** | **42** |
| **HoursoutClassroom** | **14** | **6** | **84** |
| **Midterm Exam** | **1** | **20** | **20** |
| **Final Exam** | **1** | **40** | **40** |
| **Total****Total / 30****ECTS Credit** | **186** |
| **=186/30=6,2** |
| **6** |
| **RECENT PERFORMANCE** |
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