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| **ÇAĞ UNIVERSITY**  **FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES** | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **Code** | | | | **Course Title** | | | | | | | | | | | | **Credit** | | | | | **ECTS** | | |  |  |
| **IFN-423** | | | | Blockchain Technology | | | | | | | | | | | | 3 (3-0-3) | | | | | 6 | | |  |  |
| **Prerequisites** | | | | | | | | **None** | | | | | | | | | | | | | | | |  |  |
| **Language of Instruction** | | | | | | | | English | | | | **Mode of Delivery** | | | | | | Online/ÇUZEM | | | | | |  |  |
| **Type and Level of Course** | | | | | | | | Elective /4. Year /Fall | | | | | | | | | | | | | | | |  |  |
| **Lecturers** | | | | | **Name(s)** | | | | | | **Lecture Hours** | | | | | | **Office Hours** | | | | **Contacts** | | |  |  |
| **Course Coordinator** | | | | | Asst. Prof. Emre Kadir ÖZEKENCİ | | | | | | Monday  13.25-15.45 | | | | | | Tuesday  10.00-16.00 | | | | [ekadirozekenci@cag.edu.tr](mailto:ekadirozekenci@cag.edu.tr) | | |  |  |
| **Course Objective** | | | | | To create a comprehensive awareness of Blockchain Technology, beginning with the basic’s terms, concepts, and definitions, working toward, and facilitating a wide understanding and appreciation of blockchain technology and its applications in global economy. | | | | | | | | | | | | | | | | | | |  |  |
| **Learning Outcomes of the Course** | |  | Students who have completed the course successfully should be able to | | | | | | | | | | | | | | | | | **Relationship** | | | |  |  |
| **Prog. Output** | | | **Net Effect** |  |  |
| 1 | understand basic blockchain concepts, the advantages, and disadvantages of blockchain technology. | | | | | | | | | | | | | | | | | **2** | | | **5** |  |  |
| 2 | analysis the main differences between blockchain technology and other form of technology in international economy activity. | | | | | | | | | | | | | | | | | **9** | | | **4** |  |  |
| 3 | states the relevant ethical and privacy issues related to blockchain. | | | | | | | | | | | | | | | | | **4** | | | **5** |  |  |
| 4 | analysis the real-world opportunities and challenges on blockchain technology in the context of global economy. | | | | | | | | | | | | | | | | | **5** | | | **4** |  |  |
| **Course Description:** The fundamentals of blockchain technology and application in the global economy will be covered in this course. The modern application and its examples, basic concepts, key challenges, and their solution to help understand blockchain technology will be investigated in the context of this course. In parallel to this, as the storage and transaction mechanism for the cryptocurrency, Bitcoin which is the most well-known example of Blockchain Technology widespread use in global economy will be explained and discussed. Also, the ethical and privacy concerns about Blockchain Technology will be examined in this course. Finally, the students will have chance to find out opportunities and challenges on blockchain technology in its applications by the help of real-world examples (case studies). | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **Course Contents: (Weekly Lecture Plan)** | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **Weeks** | **Topics** | | | | | | | | | | | | **Preparation** | | | | | | **Teaching Methods** | | | | |  |  |
| **1** | Introduction to Blockchain Technology | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **2** | Basic terms, concepts, and history of blockchain technology | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **3** | Technical concepts of blockchain technology | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **4** | Technical concepts of blockchain technology | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures& Discussion | | | | |  |  |
| **5** | Bitcoin and other cryptocurrencies | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **6** | Privacy and ethical issues on blockchain technology | | | | | | | | | | | | Ppt - Pdf | | | | | | Discussion | | | | |  |  |
| **7** | Midterm | | | | | | | | | | | | - | | | | | | Exam | | | | |  |  |
| **8** | Blockchain technologies (Revolution or just trend) | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **9** | Blockchain technologies (Revolution or just trend) | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **10** | Blockchain Applications in global economy | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **11** | Blockchain Applications in global economy supported by real world example | | | | | | | | | | | | Ppt - Pdf | | | | | | Lectures & Discussion | | | | |  |  |
| **12** | Case study | | | | | | | | | | | | Material Sharing (PDF) | | | | | | Lectures & Discussion | | | | |  |  |
| **13** | General Overview | | | | | | | | | | | | By Lecturer | | | | | | Discussion | | | | |  |  |
| **14** | Final | | | | | | | | | | | | - | | | | | | Exam | | | | |  |  |
| **REFERENCES** | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **Textbook** | | | | | | Mastering Blockchain (2018), (2nd ed.), Imran Bashir, Pactr publishing  Can Blockchain Revolutionize International Trade (2018), E. Ganne, World Trade Organization. | | | | | | | | | | | | | | | | | |  |  |
| **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> | | | | | | | | | | | | | | | | | |  |  |
| **Related links** | | | | | | <https://www.wto.org/english/res_e/booksp_e/blockchainrev18_e.pdf>  <https://www.europarl.europa.eu/RegData/etudes/STUD/2020/641544/EPRS_STU(2020)641544_EN.pdf>  <https://unece.org/fileadmin/DAM/cefact/GuidanceMaterials/WhitePaperBlockchain.pdf> | | | | | | | | | | | | | | | | | |  |  |
| **Recommended Reading** | | | | | | <https://www.hrpub.org/journals/article_info.php?aid=11672>  <http://www.rejournal.eu/sites/rejournal.versatech.ro/files/articole/2019-04-01/3547/10belu.pdf> | | | | | | | | | | | | | | | | | |  |  |
| **Material Sharing** | | | | | | Case Studies and PDF | | | | | | | | | | | | | | | | | |  |  |
| **ASSESSMENT METHODS** | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **Activities** | | | | | | | **Number** | | | **Effect** | | | | **Notes** | | | | | | | | | |  |  |
| Effect of The Midterm Exam | | | | | | | 1 | | | 30% | | | |  | | | | | | | | | |  |  |
| Case study | | | | | | | 1 | | | 20% | | | |  | | | | | | | | | |  |  |
| Effect of The Final Exam | | | | | | | 1 | | | 50% | | | |  | | | | | | | | | |  |  |
| **Total** | | | | | | |  | | | **100%** | | | |  | | | | | | | | | |  |  |
| **ECTS TABLE** | | | | | | | | | | | | | | | | | | | | | | | |  |  |
| **Contents** | | | | | | | | | **Number** | | | | | | **Hours** | | | | | | | **Total** | |  |  |
| Hours in Classroom | | | | | | | | | 12 | | | | | | 3 | | | | | | | 36 | |  |  |
| Hours out Classroom | | | | | | | | | 12 | | | | | | 6 | | | | | | | 72 | |  |  |
| Case study | | | | | | | | | 1 | | | | | | 20 | | | | | | | 20 | |  |  |
| Midterm Exam | | | | | | | | | 1 | | | | | | 25 | | | | | | | 25 | |  |  |
| Final Exam | | | | | | | | | 1 | | | | | | 30 | | | | | | | 30 | |  |  |
| **Total**  **Total / 30**  **ECTS Credit** | | | | | | | | | | | | | | | | | | | | | | **183** | |  |  |
| **=183/30=6,1** | |  |  |
| **6** | |  |  |
| **RECENT PERFORMANCE** | | | | | | | | | | | | | | | | | | | | | | | |  |  |
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