| | ARTIFICIAL INTELLI | GENC | E ACTIVITIES IN EDUCATION | | | | | | |
|----|--|---|--|--|--|--|--|--|--|
| 1 | Course Title: | ARTIFIC | IAL INTELLIGENCE ACTIVITIES IN EDUCATION | | | | | | |
| 2 | Course Code: | BIL0003 | | | | | | | |
| 3 | Type of Course: | Optional | | | | | | | |
| 4 | Level of Course: | First Cyc | le | | | | | | |
| 5 | Year of Study: | 2 | | | | | | | |
| 6 | Semester: | 3 | | | | | | | |
| 7 | ECTS Credits Allocated: | 4.00 | | | | | | | |
| 8 | Theoretical (hour/week): | 2.00 | | | | | | | |
| 9 | Practice (hour/week): | 0.00 | | | | | | | |
| 10 | Laboratory (hour/week): | 0 | | | | | | | |
| 11 | Prerequisites: | None | | | | | | | |
| 12 | Language: | Turkish | | | | | | | |
| 13 | Mode of Delivery: | Face to | face | | | | | | |
| 14 | Course Coordinator: | Prof. Dr. | ADEM UZUN | | | | | | |
| 15 | Course Lecturers: | | | | | | | | |
| 16 | Contact information of the Course Coordinator: | auzun@ | uludag.edu.tr | | | | | | |
| 17 | Website: | | | | | | | | |
| 18 | Objective of the Course: | The aim of this course is to provide prospective teachers with knowledge and skills in the following subjects. Intelligence and its characteristics, History, current status and application areas of artificial intelligence, Expert systems, usage areas, components, features and design of expert systems, use of expert systems in education, Intelligent learning systems, Big data in education, Learning analytics, Educational agent, Adaptive learning and adaptive measurement Program development in logical programming | | | | | | | |
| 19 | Contribution of the Course to Professional Development: | | | | | | | | |
| 20 | Learning Outcomes: | | | | | | | | |
| | | 1 | To be able to explain the concept of artificial intelligence. | | | | | | |
| | | 2 | Being able to identify the structure and components of expert systems. | | | | | | |
| | | 3 | To explain intelligent learning systems and components | | | | | | |
| | | 4 | To be able to explain the properties of logical programming languages. | | | | | | |
| | | 5 | To be able to use a logical programming language at a basic level. | | | | | | |
| | | 6 | | | | | | | |
| | | 7 | | | | | | | |
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| | | 10 | | | | | | | |
| 21 | Course Content: | | | | | | | | |
| | | Co | ourse Content: | | | | | | |

| Week | Theore | Theoretical | | | | | | | | Practice | | | | | | | | |
|--|--|--|----------|--------|-----------|----------|---------|---|---------------|----------|------|--------|----------|-----------|-------|------|--|--|
| 1 | | asic concepts of natural intelligence and tificial intelligence | | | | | | | | | | | | | | | | |
| 2 | Historic | al deve | elopme | ent of | artificia | l intell | ligenc | e | | | | | | | | | | |
| 3 | The rela and arti | | | | natural | intelli | gence | 9 | | | | | | | | | | |
| 4 | Expert | system | s | | | | | | | | | | | | | | | |
| 5 | Learnin | g analy | /tics | | | | | | | | | | | | | | | |
| 6 | Data m | ining a | nd its u | use in | educa | tion | | | | | | | | | | | | |
| 7 | Intellige | nt teac | hing s | ystem | าร | | | | | | | | | | | | | |
| 8 | Educati | onal ag | gent | | | | | | | | | | | | | | | |
| 9 | Adaptiv | e learn | ing | | | | | | | | | | | | | | | |
| 10 | Program | nming | applica | ations | | | | | | | | | | | | | | |
| 11 | Prograr | nming | applica | ations | | | | | | | | | | | | | | |
| 12 | Program | | | | | | | | | | | | | | | | | |
| 13 | Prograr | | <u> </u> | | | | | | | | | | | | | | | |
| 14 | Program | nming | applica | ations | | | | | | | | | | | | | | |
| 22 Textbooks, References and/or Other Materials: Activites | | | | | | | 20 | Vasif Vagifoğlu Nabiyev, Yapay Zeka, 5. basl 2016, Seçkin Yayıncılık. Introduction to Artificial Inteligence. Eugene C Number Duration (hour) T | | | | | | Charniak. | | | | |
| Theore | lical | ent | | | | | | - | 14 | | | 2.00 | | | 28.00 | | | |
| | Practicals/Labs | | | | | | | | 0 | | | | 0.00 | | | 0.00 | | |
| Self stu | study and preperation | | | | | | | | | 12 | | | | 3.00 | | | | |
| Homew | neworks | | | | | | | | | 0 | | | | 0.00 | | | | |
| Project | cts | | | | | | | | | | | | | 5.00 | | | | |
| Field S | | | | | | | | | 0 | | | | 0.00 | | | 0.00 | | |
| Midtern | xam n exams | | | | | 1 | | 00 | | | | | ľ | | 10.00 | | | |
| Others | | | | | | | | | | 0 | | | | | 0.00 | | | |
| Einal E Succes | Contribution of Term (Year) Learning Activities to Enal Examples Success Grade | | | | | | | | | 40100 | | | | | 21.00 | | | |
| | Vork Loa | | | | | 1440 | | | 00.00 | | | | | 130.00 | | | | |
| Tetel | ork load | | | | | | | | | | | | 4.00 | | | | | |
| | Credit of rement a | | | n Tec | hnique | s Use | d in th | ne | | | | | | | 4.00 | | | |
| 24 | ECTS | / WO | RK L | OAD | TAB | LE | | | | | | | | | | | | |
| 25 | | | CON | TRIE | BUTIO | N OI | | | IING LIFIC | | | S TO I | PROC | GRAM | ME | | | |
| | PQ | 1 PQ2 | PQ3 | PQ4 | PQ5 | PQ6 | PQ7 | PQ8 | PQ9 | PQ1 | PQ11 | PQ12 | PQ1 3 | PQ14 | PQ15 | PQ16 | | |
| ÖK1 | 5 | 5 | 4 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ÖK2 | 4 | 4 | 4 | 4 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ÖK3 | 5 | 4 | 4 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | | | | | | | |

| ÖK4 | 5 | 4 | 4 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|-------|---|---|------|----|--------|---|---|-------------|---|---|---|---|
| ÖK5 5 4 4 5 0 4 0 | | | | | | | | | | | | 0 | | | | |
| LO: Learning Objectives PQ: Program Qualifications | | | | | | | | | | | | | | | | |
| Contrib 1 very low ution Level: | | | | 2 Iow | | 3 | Medi | um | 4 High | | | 5 Very High | | | | |