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| **Course Name** | **Code** | **Semester** | **T+U** | **Credit** | **ECTS** |
| **Children, Science and Technology** |  | 1 | 2+0 | 2 | 3 |
| Prerequisite Courses |  |
| Language of the Course | Turkish |
| Type of Course | Departmental Elective |
| Course Coordinator |   |
| Instructor |  |
| Course Assistants |  |
| The aim of lesson |  Child Science and Technology lesson aims to enable child development students to use science and technology in education and develop science and technology based activities. |
| Course Learning Outcomes | At the end of this course, the student;1. Comprehends the development of scientific thinking and scientific process skills in childhood.
2. Understands the use of the technology effectively.
3. Plans science and technology based activity
 |
| Course Content | The development of scientific thinking in children, the role of the educator in science and technology educationpreparation of a science and technology center in the classroom, stem and project approaches, science and technology-based activities. |
| **Weeks** | **Topics** |
| 1 | Course description. Basic concepts |
| 2 | Child , science and technology concepts  |
| 3 | Child and science  |
| 4 | Scientific thought development in child |
| 5 | Child and technology  |
| 6 | The educator role  |
| 7 | Science centre preparation  |
| 8 | Technology centre preparation  |
| 9 | STEM approach |
| 10 | STEM approach |
| 11 | Project approach |
| 12 | Project approach |
| 13 | Science and technology based events |
| 14 | Science and technology based events |

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| **General Competencies** |
| Students are expected to understand the main topics of this course and use it in their fields and practices. |
| **References** |
|  Aktas Arnas Y. ( 2007). S*cience and math learning* . Morpa Culture Publications .Ayas , T. and Horzum , MB [Ed.] (2016). N*egative effects* . VİZE Publishing . |
| **Evaluation System** |
| It is stated in the syllabus at the beginning of the semester. |

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| **PROGRAM LEARNING OUTCOMES****AND COURSE LEARNING OUTCOMES RELATIONSHIP TABLE** |
|  | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **LO1** | 5 | - | - | 3 | - |  | - | 5 | - | - |
| **LO2** |  |  | - | - | - |  | - | 5 | - | - |
| **LO3** | - | 5 | 3 | 5 | - |  | - | 5 | - | - |
| **LO: Learning Outputs PO: Program Outputs** |
| **Contribution****level** | **1 Very Low** | **2 Low** | **3 Medium** | **4 High** | **5 Very High** |

Relation of Program Outcomes and Related Course

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lesson** | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** |
| **Children's Science and Technology** | 4 | 4 | 2 | 4 | - |  | - | 5 | - | - |

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