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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 education  preparation 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 | | | | | |  |  | | --- | | **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. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **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 | - | - | |