

1. Tantárgyelem neve:	Environmental Education	Kreditértéke:	4
Tantárgyelem besorolása:	kötelező		
A Tantárgyelem elméleti vagy gyakorlati jellegének mértéke, "képzési karaktere":		elmélet (%):	40
		gyakorlat (%):	60
A tanóra típusa:		előadás	
óraszám, az adott félévben:	1+2 weekly		
Az adott ismeret átadásában alkalmazandó további módok, jellemzők:			
A számonkérés módja:		exam (5)	
A tantárgyelem tantervi helye (hányadik félév):	2		
Előtanulmányi feltételek:	-		
<p>Tantárgyelem-leírás:</p> <p>Lecture (geography)</p> <p>The origin and development of the Universe. Basic Astronomy: Milky Way, stars, galaxies, extra galaxies, Sun and the Solar System, planets of Solar Systems, Earth and the Moon (main properties and light changes, eclipses), comets, meteors.</p> <p>Earth: Shape, motions, orientation on Earth. Time calculation.</p> <p>Lithosphere: main rocks and minerals, soil (developing, components, layers, classification).</p> <p>Earth's water: origin, types and distribution, (oceans, freshwater), water cycle, environmental condition and protection</p> <p>Atmosphere: origin, composition, main components, and its vertical layers. Weather, climate, greenhouse effect, climate change.</p> <p>Geology and geography of Hungary: geological history, topography, characteristics of climate, surface and underground water, soils.</p> <p>Seminar (biology and ecology)</p> <p>The concept and origin of life. Basic concept of evolution. Development Basic concepts of Systematic. Intra-individual levels of biological systems. Cell development (eukaryotic, prokaryotic, plant, animal). Plant tissues (dermal, ground tissues and vascular), and plant organs of flowering plants (development, function, role, types, modifications). Classification of plants (Algae, Fungi, Bryophytes, Lichens, Pteridophytes, Gymnosperms, Angiosperms). Plant species (identification, description, system). Spring aspect of nature (observation in the park). Plant physiology: germination, foliage.</p> <p>Animals: invertebrates and vertebrates, main Phyla and Classes. Outcoverings, body structure of main groups. Animal species (identification, description, system).</p> <p>Behavioural Biology: innate (reflex actions, kinesis, taxis, fixed action patterns, migration, foraging, communication, altruistic behaviours, finding sex partners) and learned behaviours (habituation, imprinting, classical and operant condition, cognitive learning).</p> <p>Observation and explanation of the natural phenomena that can be discovered in the kindergarten (e.g. leaf colouration, spines, thorns, the ashiness of fruits, outer covering of animals, fur, feathers).</p> <p>An introduction to the interactions between living organisms and their physical, chemical and biological environment:</p> <ul style="list-style-type: none"> • What is ecology, the role of ecology in science, divisions of ecology • Environment, resources, biotic and abiotic factors tolerance habitat, site • Abiotic factors: light, water, temperature, soil, air • Supra-individual levels: populations, community, ecosystem, Biosphere • Populations: concept, genetic variability, size, density, demography, species distribution • Community: biodiversity (levels also), spatial structure, daily rhythm, seasonal change, succession, connections 			

- Ecosystem: food chains, food web, ecological pyramid, production, energy flow, biogeochemical cycles.
- Biomes, the large-scale bio-geographical patterns

KÖTELEZŐ IRODALOM

Clark, M.A. (Ed.) (2018). *Biology 2e by OpenStax*. XanEdu Publishing Inc. (<https://openstax.org/details/books/biology-2e>)

AJÁNLOTT IRODALOM

Ha, M., & Schleiger, R. (2022, September 5). Environmental Science (Ha and Schleiger). ASCCC Open Educational Resources Initiative. <https://bio.libretexts.org/@go/page/31593>
Introductory Biology (CK-12). (2022, March 5). <https://bio.libretexts.org/@go/page/6247>

TUDÁS

- Knows the basic documents of preschool education, and is aware of the general goals and tasks of preschool education, the forms of activity, their content and their connections.
- Knows the different levels of planning used in preschool education, the planning theory and methodology, the connections and characteristics of each level.
- Knows the pedagogical possibilities of education for sustainability in own field and type of institution.
- Knows the methods of getting to know a preschool child.

KÉPESSÉG

- Based on the knowledge of the age and individual characteristics of the 3-7-year-old children can determine and select the appropriate educational and developmental goals, tasks and contents, and are also able to manage, facilitate, analyze and evaluate the pedagogical process in a differentiated manner.
- They can enforce the principles of education for sustainability in its activities.

ATTITÚD

- Committed to the selection of strategies, methods, activities and the creation of a supportive environment that promotes the systematization and expansion of the experiences and knowledge of the 3-7-year-old child and the group of children.
- Their personality is characterized by non-prejudice, tolerance, social sensitivity, and helpful attitude, they have an inclusive and multicultural approach, and they strive to promote the preservation and nurturing of cultural identity and to support the integration of children into the community.
- Accepts that preschool education is child-, game- and activity-centered, inclusive, and the pedagogical effects used in preschool education must be adapted to the child's personality.

AUTONÓMIA-FELELŐSSÉG

- Takes responsibility for the 3-7-year-old children entrusted to him, for the children's group, for his activities in the educational institution.
- They are responsible for the multifaceted and harmonious development of the preschool child's personality, and for the creation of the personal and material environment necessary for healthy growth and development.
- Takes responsibility for the decisions made during the planning of the preschool educational process and for the consequences of his pedagogical activities.
- Within its scope, it assumes responsibility for the conscious shaping of children's behaviour towards sustainable development.

A tantárgyelem felelőse

Név:	Bärnkopfné Dr. Zsoffai Klára	Beosztás:	egyetemi adjunktus
Tudományos fokozat:	PhD		