

EÖTVÖS LORÁND UNIVERSITY
FACULTY OF PRIMARY AND PRE-SCHOOL EDUCATION

Department of Natural Sciences

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The Department's Main Professional Activities

Education:

General training objectives:

- The promotion and support of students' professional studies in the natural sciences
- the fostering of students' responsible thinking in reference to the environment and health
- motivating our students to conduct responsible environmental activities
- the development of students' skills and competences in order to mediate the approach of sustainability and alter public attitudes

I. Primary School Education /4 academic years/

Objectives:

- the establishment of students' professional and methodological attitudes towards natural sciences
- enable students to instruct children aged 6-12 years to possess a responsible attitude towards the natural sciences, health and environment

Subject fields of basic education /for all students/:

- Natural Studies and Environmental Protection – Physics, Chemistry, Biology and Geography; The Methodology of Natural Studies
- Structure and Function of the Human Body
- Health Sciences
- Health Education, Preventive Health

Subject fields in additional education /for specialized students/:

- The Theory and Practice of Physics and Chemistry
- General Physical Geography
- The Natural and Economic Geography of Hungary
- The Theory and Practice of Botany
- The Theory and Practice of Zoology
- General Biology
- Ecology and Environmental Culture
- Complex Outdoor Practice
- Health Science, Health Education, Preventive Health
- Functional Anatomy
- Sustainability Education

II. Pre-School Education /3 academic years/

Objectives:

- the establishment of students' professional and methodological attitude towards the natural sciences
- to enable students to instruct children aged 3-6 years with the aim of fostering a responsible attitude towards the natural sciences and environment in an age-appropriate way
- to enable students to act as role models for children and families as regards personal behavior and environmental culture

Subject fields:

- The Realization of Natural Studies and Methodology in Everyday Pre-School Practices
- The Methodology of Environmental Studies

- Ecology, Natural and Environmental Protection
- Functional Anatomy, Health Science, Health Improvement
- The Realization of Green Outdoor Activities for Children

III. Infant and Early Childhood Education /3 academic years/

Objective: to train professionals in providing daily care and education for children aged 0-3 years

Subject fields /Health Sciences/:

- Functional Anatomy
- The Theory and Practice of the Development and Care of Healthy Infants and Young Children
- Paediatrics and Applied Pharmacology;
- The Theory and Practice of Children's Nursing
- Dietetics
- Infectious Diseases, Epidemiology
- First Aid
- Education in Healthy Lifestyle
- Sustainability Education

Subjects for optional and compulsory course selection:

- Zoopedagogy in Budapest Zoo
- The Education of Sustainability
- Health Improvement
- The Relation of Natural science and Practical Training
- Global Issues at the Beginning of the 21st Century

IV. Further training for active professionals

Subjects:

- Education in Environmental Sustainability with Entertainment

- Environmental Education for Professionals
- Professional Training in Specialized Natural Studies

Main Fields of Research:

Sustainability Education in Early Childhood Research Laboratory

Keywords: education for sustainability, environmental awareness

Research field: natural sciences, pedagogical sciences, sustainability

Brief description:

The main goals for Sustainability Education in Early Childhood Research Laboratory are the following:

- Examining key competencies for students in Infant and Early Childhood Education; Pre-School and Primary School Teacher Training in the field of sustainability. The main focus is to evaluate students' knowledge and attitudes towards sustainability and how these two factors interact.
- Development and implementation numbers of sensitization projects related to education for sustainability (ESD). The aims of these projects are to improve students' competencies (e.g. knowledge, skills, attitude) while preparing them to provide quality education in the field of sustainability.

Current Research:

- Assessment of students' knowledge, attitude and awareness in the field of sustainability via surveys.
- Examination of the effectiveness of sensitization projects.

Health-Conscious Education Research Laboratory

Key words: health development, healthy lifestyle.

Research field: natural sciences, pedagogical sciences.

Brief Description:

The Health-Conscious Education Research Lab at ELTE TÓK's Department of Natural Sciences was founded with the aim of improving the efficiency of health development in Infant and Early Childhood Education, Pre-School and Primary School Teacher Training. The goal of this research is to establish the factors that

can influence health-conscious behaviours in children and therefore play an essential role in developing a sustainable lifestyle.

Current Research:

- Forming health-conscious behaviour in children
- The examination of the lifestyles of our students
- The relationship between physical activity and body shape

Departmental Events

- Earth Day
- Students' Research Workshop
- Health Day
- World Day of Water
- Field trips
- First Aid
- Diabetes Day
- Day of Nursery

Staff

Name	Title/position	e-mail contact	Main professional fields
Ms Zita BAUER	Senior Instructor	bauer.zita@tok.elte.hu	Natural Studies and Methodology Botany The Methodology of Environmental Studies
Dr. Sarolta DARVAY PhD	Docent	darvay.sarolta@tok.elte.hu	Functional Anatomy General Physical Geography Health Sciences Health Improvement
Ms Veronika FÜLÖP	Instructor	fulop.veronika@tok.elte.hu	Natural Studies and Environmental Protection The Theory and Practice of Physics and Chemistry Biology
Dr. Katalin HILL PhD	Senior Assistant Professor	hill.katalin@tok.elte.hu	Natural Studies and Environmental Protection Physical and Chemical Basic Knowledge Practice Natural Interactions and Sustainability Practices Functional Anatomy Ecology Health Sciences Sustainability Education Field trips
Beáta VENYINGI	Instructor	venyingi.beata@tok.elte.hu	Theory and Practice of the Development and Care of Healthy Infants and Young Children Theory and Practice of Children's Nursing Dietetics Infectious Diseases, Epidemiology First Aid Education in a Healthy Lifestyle

Dr. Gábor Áron VITÁLYOS PhD	Docent, Head of Department	vitalyos.aron@tok.elte.hu	Functional Anatomy Zoology Nature and Environmental Protection General Physical Geography Botany Ecology Biology General Biology Sustainability education Field trips
Dr. Klára ZSOFFAY PhD	Senior Assistant Professor	zsoffay.klara@tok.elte.hu	Functional Anatomy Natural Studies and Methodology Ecology Nature and Environmental Protection The Methodology of Environmental Studies
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