

Faculty of Economics and Management

■ Board game

Come discover the basics of economics and project management through a board game suitable for the whole family! You can try project management, investment decision-making and economic planning strategies. The game is designed to present key aspects of economics to you and your children in an understandable way. Come with your family and try a game that will teach you economics and project management in a fun way.

17:00 – 22:00

■ VR lab

Are you interested in the world of virtual reality? Visit our laboratory and immerse yourself in an interactive virtual world! Discover the latest VR technologies, the CAVE environment and find out with us how VR can be used in the economy, marketing or the automotive industry. Experts will guide you through practical applications and show how VR is changing our world.

17:00 – 22:00

■ A visual guide to the world of economic research

Discover the world of economic research with visual graphs and diagrams from real scientific articles. Our exhibition will be your visual guide to the latest knowledge in economics. Get to know economic phenomena in a fun and understandable way!

17:00 – 22:00

■ What secrets can we find out about your phone?

Gain insight into our students' current thesis work, in which they collect data directly from the real world..

17:00 – 22:00

Faculty of Agrobiology, Food and Natural Resources

■ Quiz: Secrets of Plants

Try learning about plant seeds and plant species. Can you identify them all correctly?

17:00 – 22:00

■ Behind the mystery of our senses

Come and test the sensitivity of your senses, which we use to evaluate food. In the new sensory laboratory, we will allow you to test how sensitive your senses are and can distinguish individual taste and smell sensations. At the same time, we will offer you the opportunity to taste edible insects, which are included in the list of so-called new foods in the EU.

17:00 – 22:00

■ How are foods made?

Annotated demonstration of the Agricultural Products Processing Research Center

18:20 – 18:40, 19:20 – 19:40

■ Discover the taste secret of university products

Taste our honest university products and learn the secrets of our product production

17:00 – 22:00

Faculty of Engineering

■ Mystery of Material Structures

Identify the type of material based on an image taken with an electron microscope.

17:00 – 21:00

■ Secrets of 3D Printing

Explore the possibilities of 3D printing (technologies and methods, materials, shape options, color possibilities, etc.).

17:00 – 21:00

■ Conditionogram for 2024

During the Researchers' Night, you can obtain a conditionogram created for 2024, including your successful, unsuccessful, or critical days, as seen in the Czech movie „Jáchyme, hoď ho do stroje.“

17:00 – 21:00

■ Mysterious Images

Hidden images on various topics on a screen that will gradually be revealed.

17:00 – 21:00

■ Mysterious Cards

A computer-based card trick that, based on three questions, identifies the card you have chosen.

17:00 – 21:00

■ What is the difference between AR and VR?

Using virtual reality, you can view devices found in the Department of Electrical Engineering and Automation's laboratory and guess what type of device it is.

17:00 – 21:00

■ What's in the Electronics Laboratory?

Using virtual reality, you can view devices found in the Department of Electrical Engineering and Automation's laboratory and guess what type of device it is.

17:00 – 21:00

■ The Secrets of RFID

What does RFID technology entail and where can it be found? A demonstration of RFID.

17:00 – 21:00

■ Mysterious Electronic Components

Take a look and get to know individual surface-mount (SMD) and through-hole (THT) electronic components.

17:00 – 21:00

Faculty of Forestry and Wood Sciences

■ Take a look and get to know individual surface-mount (SMD) and through-hole (THT) electronic components.

The lecture followed by a discussion is intended for all visitors who want to learn more about old trees, their significance and the Lesodiversita application.

17:30 – 18:15

■ Application Klíšťapka: A breakthrough tool in the fight against ticks

The health of nature visitors is a top priority. That's why the development team from ČZU set a bold goal - to ensure the safety of people and their four-legged pets from the dangers lurking in the forests. The newly created mobile application Klíšťapka predicts the activity of ticks, including the risk of Lyme infection, based on forest stands, habitats and weather.

18:30 – 19:15

■ Plants you have never seen them before

Projection of microscopic preparations of plant parts and explanation of their function.

19:00 – 22:00

■ The secrets of handmade paper

The paper was invented in China in 105 AD. Come and see how our ancestors made paper materials from cotton almost 2,000 years ago. At the same time, you might even take your own creation home.

17:00 – 21:00

■ What the eye can't see in woodworking

Woodworking hides many secrets that are hidden from our senses. Come and see machining which we will bring to you thanks to modern technologies.

17:00 – 22:00

■ The Secrets of treeclimbing

Demonstration of tree climbing - modern equipment and concept, revealing the secret: why a tree climber „cannot fall“?

18:00 – 18:30

Faculty of Environmental Sciences

■ By what secret does the light attract nocturnal insects to itself?

We will check the extent of the effect of light pollution on insect, focusing on intensity of illumination, chromaticity of light and the direction of luminous flux.

17:00 – 22:00

■ What secrets are hidden in the camera trap records?

What can camera traps tell us about the behavior of elusive animals or the environment? This is what zoologists who long-term monitor the rarest wild animals in the equatorial rainforests will tell you.

17:00 – 22:00

■ Secrets of smart birdhouses

Have you ever wondered what all is going on in a tree cavity or a birdhouse? Our ornithologists will share these secrets with you thanks to cameras placed directly inside the nest cavity.

17:00 – 22:00

■ Do you know all the secrets of waste sorting?

What is waste sorting? What is recycling? These are things every little scientist should know.

17:00 – 22:00

Faculty of Tropical AgriSciences

■ Dark matter - how to extract the greatest secrets of biology, wealth, and fame from it?

Physical dark matter is mysterious. Physicists indeed know exactly what such dark matter should do, but they have no idea what it looks like. Besides this physical dark matter, there is also biological dark matter, which is no less mysterious. Unlike physicists, we biologists know exactly what biological dark matter looks like (we know the individual sequences), but their biological roles are shrouded in mystery to us.

18:00 – 19:00

■ Herbarium tour

In the Herbarium of the Tropical Botany and Ethnobiology Lab, visitors will have the opportunity to acquaint themselves with the research of selected team members. They will have the chance to view various herbarium specimens, including microscopy and demonstrations of specialized botanical/ethnobotanical publications. Enthusiasts will learn about how herbarium items are prepared and the actual purpose of a herbarium. Additionally, they will have the opportunity to explore the laboratory equipment.

17:00 – 22:00

■ Scavenger hunt: Discover the Secrets of the Tropics!

Discover the Secrets of the Tropics! A Fun Game for Young Scientists and Their Parents.

• Mysterious Scents of the Tropics (Essential Oil Guessing Game)

• Uncover the Flavors of the Tropics and Subtropics (Exotic Fruit and Beverage Tasting)

• Get to Know Exotic Plants (From Our Botanical Garden)

• Exotic Animals (Identify Animals by Their Sounds)

• Antelope Puzzle (Giant Jigsaw Puzzle)

17:00 – 22:00