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## Immuno Diagnostic Systems - iSYS

Multi-disciplinary automated immunoassay device



Assay serum, plasma, blood, saliva, urine for a variety of endocrinological indicators:

- Enzyme activity
- Spectrophotometer, magnetic particle chemiluminescence
- First results within 8 minutes
- Auto-process up to 120 samples

**Owner institution:** University of Primorska

**Location:** Glagoljaška ulica 8, Koper

**Contact:** Michael Burnard  
michael.burnard@innorenew.eu



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## Computer Laboratories

Research work



Three computer laboratories with fully upgraded IT equipment and one computer laboratory with supplemented IT equipment. They are modern laboratories with 16 or 20 computers each. For the needs of research work, dual operating systems (Linux Ubuntu and Windows 10) are installed on all computers. Standardized software enables research work for different fields.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Albert Kleva Tomc  
([albert.kleva-tomc@famnit.upr.si](mailto:albert.kleva-tomc@famnit.upr.si))



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## Seminar Room

Presentation of research work



Upgraded seminar room with a computer, modern projector, and suitable projection screen to meet the needs of researchers and enable quality presentations.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

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## Computer Network and Server Infrastructure

Improving research work



Server infrastructure and computer network were updated with two new servers in the central system room. One is a more powerful server for computing, which will primarily be dedicated to research work and performing more complex tasks. The other is for data and is gradually being transferred to databases and repositories for storing working files for InnoRenew researchers, administrative staff, and operations.

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## Camera Module for Kinematic System with Active Markers



The system enables precise and high frequency digital recording of reference points (markers) in 3D space. Markers are usually placed in pre-defined places on the human body, which are then recorded by the camera and converted into digital form. This allows accurate tracking of the observed motion in the room and further basic and advanced kinematic processing.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Nejc Šarabon  
([nejc.sarabon@fvz.upr.si](mailto:nejc.sarabon@fvz.upr.si))



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## Portable Near-Infrared Measuring System



Near-infrared spectroscopy (NIRS) is a spectroscopic method that uses the near-infrared field of the electromagnetic spectrum (from 780 nm to 2500 nm). This method is used in medical, sports, ergonomic, and rehabilitation research.

**Owner institution:** University of Primorska

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## Mobile Wireless EMG System



The electromyography measuring system is aimed at implementing the electromyography method. Electromyography is a non-invasive electro-diagnostic method for assessing and recording electrical activity caused by skeletal muscles. The measuring system enables the simultaneous evaluation of muscular activity on 16 different muscles.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

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## **Cognionics Quick-20 Wireless EEG Headset**

20 channel EEG and 3 axis accelerometer measurement



20-channel wireless EEG headset with dry electrodes. Enables quick setup and mobility due to Bluetooth connection. The software supports LabStreamLayer to connect to other software for data analysis.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

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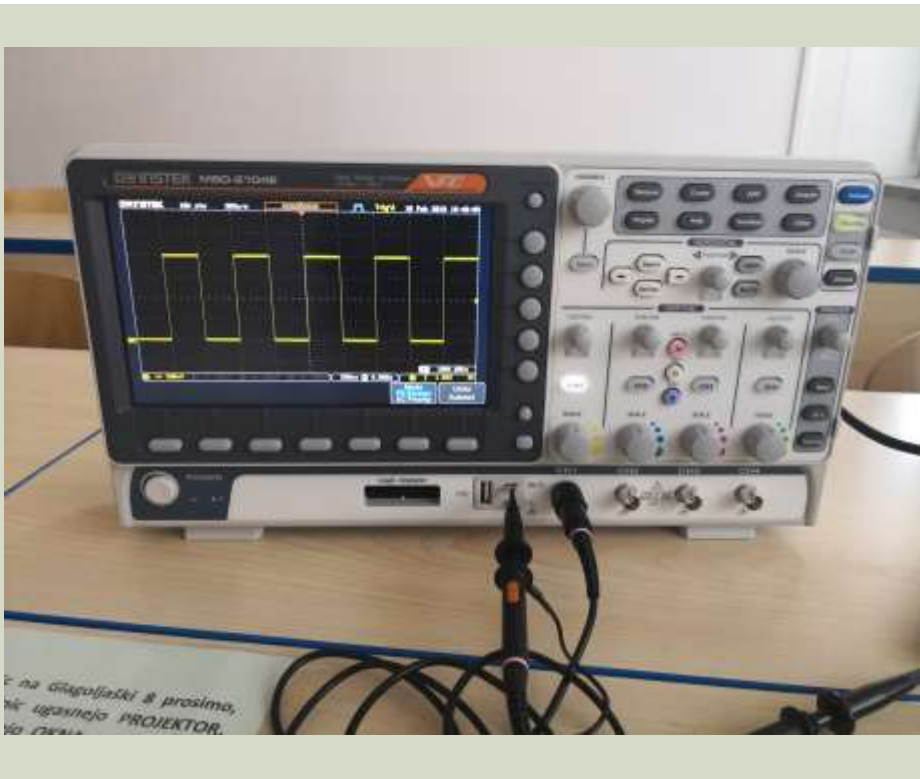


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## **GW Instek MSO 2104E Digital Storage Oscilloscope**

4 channel signal measuring and 16 channel logic analysis



100Mhz 4-channel analog and 16-channel digital inputs. Enables spectral analysis, signal decoding, and analysis for I2C/SPI/UART/CAN/LIN, signal filtering functions.

**Owner institution:** UP FAMNIT

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## Basic Tools



Basic tools are intended to support the research process by allowing researchers to fabricate IoT devices that have digital and physical components. Basic tools are required in order to support the design and implementation of electronic components as well as the design and fabrication of physical elements using various materials such as wood, plastic, and composites.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
Klen Čopič Pucihar



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## Table-Based LCR

Basic tool



LCR meter is a type of electronic test equipment used to measure the inductance (L), capacitance (C), and resistance (R) of an electronic component.

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**Location:** Glagoljaška 8, Koper

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## Benchtop Multimeter

Basic tool



Multimeter, multimeter, or a VOM (volt-ohm-milliammeter) is an electronic measuring instrument for measuring voltage, current, and resistance.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
(matjaz.kljun@upr.si)



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## Laboratory Power Supply

Basic tool



Electrical device that supplies electric power to an electrical load by converting electric current from a source to the correct voltage, current, and frequency to power the load.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
(matjaz.kljun@upr.si)



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## Oscilloscope

Basic tool



Laboratory instrument used to display and analyze the waveform of electronic signals.

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## Digital Soldering Station

Basic tool



Device designed for electronic components soldering used in electronic and electrical engineering.

**Owner institution:** University of Primorska

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## Desoldering Station

Basic tool



Device designed for desoldering electronic components used in electronics and electrical engineering.

**Owner institution:** University of Primorska

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## Manual Multimeter

Basic tool



Portable electronic measuring instrument for measuring voltage, current, and resistance.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
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## Manual LCR Meter

Basic tool



Portable electronic test equipment used to measure the inductance, capacitance, and resistance of an electronic component.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
(matjaz.kljun@upr.si)



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## Rotary Laser

Basic tool



Control tool consisting of a laser beam projector useful for setting up virtual reality frames to which various sensors are attached or for installing wall interactive elements.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
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## Wallscanner

Basic tool



A device for locating various materials in the walls and ceilings required when mounting wall or ceiling interactive devices or frames supporting such devices.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

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## Table Band Saw

Basic tool



Precise modelling saw for cutting precise pieces of plastic or wood to produce supporting elements of interaction devices.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
([matjaz.kljun@upr.si](mailto:matjaz.kljun@upr.si))



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## 6-Piece Set of Battery Powered Tools

Basic tool



A set of various tools for building, cutting, fixing, screwing: Combi Drill, Circular Saw, Jigsaw, Brushless Impact Driver, SDS+ Hammer Drill, Torch.

**Owner institution:** University of Primorska

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## Table Band Saw

Basic tool



A saw for cutting larger wooden pieces to a surface suitable for further processing in laser cutters or with other more precise devices.

**Owner institution:** University of Primorska

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## Electric Hand Planer

Basic tool



A device for thinning or fine finishing of wood surfaces such as wooden frameworks for augmented reality or support frames for interactive devices.

**Owner institution:** University of Primorska

**Location:** Glagoljaška 8, Koper

**Contact:** Matjaž Kljun  
(matjaz.kljun@upr.si)



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## Table Band Grinder

Basic tool



A device for precise thinning or fine finishing of wood surfaces such as wooden frameworks for AR or support frames for interactive devices.

**Owner institution:** University of Primorska

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**Contact:** Matjaž Kljun  
([matjaz.kljun@upr.si](mailto:matjaz.kljun@upr.si))



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## Table Planer

Basic tool



A device for thinning or fine finishing of wood surfaces such as wooden frameworks for AR or support frames for interactive devices.

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## Circular Laser Gauge

Basic tool



Control tool consisting of a laser beam projector useful for setting up virtual reality frames to which various sensors are attached or for installing wall interactive elements.

**Owner institution:** University of Primorska

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## Industrial Vacuum Cleaner

Basic tool



A vacuum cleaner for cleaning workshop surfaces and for retrieval on various machines producing waste.

**Owner institution:** University of Primorska

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([matjaz.kljun@upr.si](mailto:matjaz.kljun@upr.si))



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## **Piston-Based Silent Compressor**

Basic tool



A mechanical device that increases the pressure of a gas by reducing its volume intended for blowing out dust, painting, screwing, etc.

**Owner institution:** University of Primorska

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([matjaz.kljun@upr.si](mailto:matjaz.kljun@upr.si))



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## Mitre Saw

Basic tool



A saw used to make accurate crosscuts and miters in a work piece and cuts of different angles.

**Owner institution:** University of Primorska

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## Electric File

Basic tool



File for shaping and grinding precise things.

**Owner institution:** University of Primorska

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