



SECTION 1

EMBEDDED SYSTEMS

HARDWARE AND SOFTWARE

Room 109

Dr. Dirk Van Merode

Ing. Patric Pelgrims

11.00 – 13.00

Proprietary data transfer protocol between personal computers and microcontrollers STM32F4DISCOVERY development method
Andrey Babash, Valeriy Kvashnin, Alexander Tarasov

Information - measuring system FOR vehicle and transported CARGO registration using Raspberry PI 2
Pavlo Sahaida, Serhii Dobriak

Methods to study different interfaces and using of them in Altium NanoBoard 3000XN
Azat Smbatyan

Embedded systems: hardware and software
Gevorg Margaryan, Mher Markosyan

Overhead Crane Installation for Remote Laboratory Using Embedded Systems
Mykola Ivchenkov, Borys Timoshenko, Serhii Filatov

Development of a LabVIEW Program for a Helmholtz Coil System Based on NI PXI Platform
Amalia Hakobyan, Lusine Hovhannisyan, Serob Muradyan

Conveyor Model for Embedded Systems Study
Viacheslav Ohmak, Galyna Tabunshik

Cleaning Head Controller for Photovoltaic Panel
Gagik Kirakosyan, Vachagan Melkonyan

Embedded systems: hardware and software
Gevorg Margaryan

Water Flow Meter Design
Norik Petrosyan, Petush Shirinyan, Vachagan Melkonyan, Gegham Karoyan

13.00 – 14:00

LUNCH IN SD NITRA

14.00 – 15.00

Controller of Motion Parameters
Norik Petrosyan, Petush Shirinyan, Gegham Karoyan, Vachagan Melkonyan

Automatic Control System of Regulation of Smart House Lighting
Ia Mosashvili, Tamar Lominadze, Salome Mukhashavria

Control Problems of Smart Parking on the Example of PASYARD System
Ia Mosashvili, Tamar Lominadze, Nika Kruashvili

Using of new methods of growing of reliability of Control of Embedded Systems

Giorgi Chachua, Ia Mosashvili

Remote Heart Rate Monitoring Embedded System

Serob Muradyan, Amalya Mkhitarian

15.00 – 15.30

COFFEE BREAK

15.30 – 17.00

The role of “embedded systems” in the preparation of qualified specialists

Amalya Mkhitarian, Gohar Avetisyan

Development and design of conference-translation systems is based on digital radio communication

Azat Smbatyan, Areg Kamalyan

Bluetooth Quadcopter Control System

Joren Mommaerts, Dirk Van Merode

Optoelectronic display system data based on matrix display

Oleg Subotin, Evgeniy Donchenko

Teaching Distributed and Parallel Systems with APP4MC

Robert Höttger, Uwe Lauschner, Phil Nördemann, Philipp Heisig, Carsten Wolff, Erik Kamsties, Burkhard Igel

Matlab Simulink application to program microcontroller’s stm32f4discovery

Vladyslav Kvashnin, Babash Andrey, Valeriy Kvashnin, Yuliya Lazutkina, Galina Klimenko

Software and Hardware for controlling the Robot “Hand”

Ia Mosashvili, Tamar Lominadze, Salome Oniani

Software Suite for Device Interaction Based on OS Android with Arduino by Bluetooth Protocol

Daniil Pavenko, Oleksandr Altukhov

The Features of “C” Language Teaching Methods in Embedded Systems

Anna Grigoryan, Siranush Sevyan

Increase of effectiveness of Embedded Systems of Web based vehicle and its practical use

Teimurazi Sakhelashvili, Ia Mosashvil



SECTION 2

REMOTE ENGINEERING AND LABORATORIES

Room 110

Dr. Ing. Karsten Henke

Dr. Ing. Heinz - Dietrich Wuttke

11.00 – 13.00

The Organizing of Remote Laboratory Operations for Multiple Users

Ruzanna Sargsyan, Lilit Amiryan

Organization of remote training of future engineers with online resources

Kateryna Vlasenko, Oleksandr Tarasov

A mechanism for automatic control on the basis of electromechanical model is designed for puppets and its use in distance learning

Mher Markosyan, Aram Manukyan, Edgar Harutyunyan

Control of virtual object using physical device

Tornike Tchikadze, Guram Chaganava, Bakari Baratashvili, Tamar Gogua, David Kakulia

The Program Implementation of Remote Laboratory Operations for Multiple Users

Hrachya Melkonyan, Mher Veziryan

Extending the functionality of a simple SOHO router (Small Office / Home Office)

Tigran Avetisyan, Ruzanna Sargsyan

Multipurpose Educational System based on Raspberry Pi

Galyna Tabunshchyk, Dirk Van Merode, Olha Petrova, Viacheslav Ohmak

13.00 – 14.00

LUNCH IN SD NITRA

14.00 – 15.00

SkyRadar – Virtual Lab on Radars and Air Traffic Management

Sergii Morshchavka, Ulrich Scholten

A Low Cost Lecture Webcasting Platform for Limited Bandwidth: Towards an Integrated Platform for an Engineering Curriculum Content Sharing and Management among Universities

Wasswa William, Martin Ngobye, Annabella Habinka

Optimization for prototyping embedded systems by using Raspberry Pi 2 and MATLAB Simulink

Oleksii Sheremet, Volodymyr Perepelytsia

Synthesis of Neural Network Regulator for Electrocontact Surfacing on the Basis of Fuzzy Control Module

Olena Berezhnaya, Aleksey Razzhivin, Ekaterina Zubenko



SECTION 3

EDUCATION AND TRAINING

Room 126

Prof. Ing. Tomáš Kozík, DrSc

Prof. PaedDr. Alena Hašková, PhD.

11.00 – 13.00

Rewarding Projects in the Technological Education in Hungary
Zsolt Benkő, Gergely Kun

Improvement of educational process based on software development for virtual and remote labs
Oleksandr Tarasov, Pavlo Sahaida, Liudmyla Vasylieva

Developing the Methodology of Teaching the Subject “Operating Systems” for Embedded Systems
Hasmik Hakobyan, Shushan Nigoyan

Implementation of "Embedded Systems" Disciplines in Computer Science Students Training
Vadym Abramov, Oksana Lytvyn

Organization of the future engineers' independent work in the blended learning of probability theory and stochastic processes
Elena Chumak

Integration of IoT Technologies to IT Professionals Educational Process
Anzhelika Parkhomenko, Andriy Parkhomenko, Yaroslav Zalyubovskiy, Marina Kalinina

Altium Designer as an Opportunity for Students
Aramyan Yelena

13.00 – 14.00

LUNCH IN SD NITRA

14.00 – 15.00

Modernization of Mobile Object Control System based on Raspberry Pi and Arduino platforms
Anzhelika Parkhomenko, Oleksii Kravchenko, Dmytro Kravchenko, Olga Gladkova

On the Issue of Spiritual Management in Education
Sonya Zakaryan, Gohar Avetisyan

3D - printing Studying as a Component of Modern STEAM Education
Nataliia Morze, Liliia Varchenko-Trotsenko

Training of Primary School Teachers for the Implementation of Educational Robotics
Morze Nataliia, Gladun Mariia



SECTION 4

INTERNATIONAL PROJECT MANAGEMENT

Room 127

Dr. Ing. Peter Arras, PhD.

Prof. Ing. Galyna Tabunshschyk, PhD.

11.00 – 13.00

International Project Management Peculiarities

Marine Ghazaryan

Some Problems and Challenges in International Project Management

Gohar Avetisyan, Mher Markosyan

Competency - based Approach for Internationalization and Interdisciplinary Study Courses in Project Management

Olga Mikhieieva

Internationalization Strategy in Zaporizhzhia National Technical University

Sergii Byelikov, D. Pavlenko, Galyna Tabunshchyk, L. Duiko

Effect of Consortium Characteristics on Outcome of EU- funded Research Projects

Ala Nuseibah

International Project Management Decision Tools

Peter Arras, Galyna Tabunshchyk

13.00 – 14.00

LUNCH IN SD NITRA