02. MILITARY TECHNOLOGY AND ROBOTICS

Head of the research area: Dr. Róbert Vég PhD, associate professor

1. Theory and Practice of Research and Development (R&D) in Military Technology, Hungary and NATO

Supervisor: Dr. György Kende DSc

2. Studying chess and its information technology background to find analogies and application possibilities regarding military strategy, battlefield operations, armaments development, decision making, military training and education

Supervisor: Dr. György Kende DSc

3. Analysis of military vehicle hybrid propulsions

Supervisor: Dr. Sándor Hennel PhD

03. DEFENCE ELECTRONICS, ICT Head of the research area: Dr. Zsolt Haig PhD, full professor

1. 4. ICT support for Command and Control

Témavezető: Dr. Tibor Farkas PhD

2. 5. Military use of 5G technology

Témavezető: Dr. Tibor Farkas PhD

04. MILITARY ENVIRONMENTAL SECURITY

Head of the research area: Dr. László Földi PhD, full professor

1. Climate change and military security

Supervisors: Dr. József Padányi, DSc

Dr. László Földi, PhD

2. The relationship between environment and security

Supervisor: Dr. Klára Sipos Kecskeméthy, CSc

3. Methodological developments in river management and regulation

Supervisor: Dr. Enikő Anna Tamás, PhD

4. Modern urban water management

Supervisor: Dr. Tamás Karches, PhD

5. Soil conservation, research of the effects of military activities and environmental damage on the soil, development of prevention options, research of mitigation process

Supervisor: Dr. Dóra Beke, PhD

6. Artificial intelligence in water management

Supervisor: Dr. Péter Kozák, PhD

7. Biodegradation and biodeterioration in the built environment

Supervisor: Dr. Judit Knisz, PhD

07. DISASTER MANAGEMENT RESEARCH FIELD

Head of the research field: Dr. Lajos Kátai-Urbán PhD, associate professor

1. Research and development of the implementation of the operator's and authorial tasks in the field of industrial safety

Supervisor: Dr. Lajos Kátai-Urbán PhD

2. Tactical possibilities and set of special equipment for managing disasters

Supervisor: Dr. Ágoston Restás PhD

3. Development of the system of procedures and tools aiming the increasing of industrial safety

Supervisor: Dr. Gyula Vass PhD

4. Research and development of the efficiency of disaster management and fire protection activities and equipment

Supervisor: Dr. Péter Pántya PhD

5. Research and development of modern tools and methods for reducing the environmental impact of industrial accidents and their elimination in the presence of dangerous substances

Supervisor: Dr. József Dobor PhD

6. Investigation of environmental aspects of industrial accidents

Supervisor: Dr. Zsolt Cimer PhD

7. Research and Development of Technical and Logistical Conditions for the Operation of Voluntary and Obligatory Civil Protection Organizations

Supervisor: Dr. István Endrődi PhD Co-supervisor: Dr. László Teknős PhD

08. AIR TRANSPORT AND AERONAUTICS RESEARCH FIELD

Head of the research field: Mátyás Palik PhD, associate professor

1. Drone applications supporting public service

Supervisor: Dr. Ágoston Restás PhD

2. Preliminary Computer Aided Design of the UAV Automatic Flight Control System

Supervisor: Dr. Róbert Szabolcsi PhD

3. Human Factors in flight safety, causes of sudden incapacitation and human error from the aspects of Human-System Integration, possible countermeasures and prevention by tools of ergonomy and technical-technological solutions

Supervisor: Dr. Sándor András Szabó PhD

4. The maintenance, economic and environmental issues of the engines built in aircraft of Hungarian Defence Forces

Supervisor: Dr. Béla Varga PhD