

**RESEARCH TOPICS FOR THE ACADEMIC YEAR 2021/2022
IN THE DOCTORAL SCHOOL OF MILITARY ENGINEERING**

MILITARY ENVIRONMENTAL SECURITY

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

1. Climate change and military security

Supervisor: Dr. József Padányi DSc, full professor

Co-supervisor: Dr. László Földi PhD, full professor

2. The relationship between environment and security

Supervisor: Dr. Klára Sipos Kecskeméthy CSc, full professor

3. Novel approaches in flood management with special focus on modeling and data collection

Supervisor: Dr. Enikő Anna Tamás PhD, full professor

4. Modern urban water management

Supervisor: Dr. Tamás Karches PhD, associate professor

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, associate professor

6. Sediment regime of rivers and related investigations

Supervisor: Dr. Enikő Anna Tamás PhD, associate professor

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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, associate professor
2. Tactical possibilities and set of special equipment for managing disasters
Supervisor: Dr. Ágoston Restás PhD, associate professor
3. Development of the system of procedures and tools aiming the increasing of industrial safety
Supervisor: Dr. Gyula Vass PhD, associate professor
4. Research and development of the efficiency of disaster management and fire protection activities and equipment
Supervisor: Dr. Péter Pántya PhD, associate professor
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, associate professor
6. Investigation of environmental aspects of industrial accidents
Supervisor: Dr. Zsolt Cimer PhD, associate professor
7. Research and Development of Technical and Logistical Conditions for the Operation of Voluntary and Obligatory Civil Protection Organizations
Supervisor: Dr. István Endrődi PhD, associate professor
Co-supervisor: Dr. László Teknős PhD, assistant professor

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AIR TRANSPORT AND AERONAUTICS RESEARCH FIELD

Head of the research field: Dr. Gyula Óvári CSc, full professor

1. 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 ergonomics and technical-technological solutions

Supervisor: Dr. Sándor András Szabó PhD, associate professor

2. Drone applications supporting public service

Supervisor: Dr. Ágoston Restás PhD, associate professor

3. Research of Unmanned Aerial Vehicles: airframe, propulsion, avionics, payload, ground control station

Supervisor: Dr. Imre Makkay CSc, full professor

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

Supervisor: Dr. Béla Varga PhD, associate professor

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

Supervisor: Dr. Róbert Szabolcsi PhD, full professor