

**RESEARCH TOPICS OF DOCTORAL SCHOOL OF MILITARY ENGINEERING FOR  
ACADEMIC YEAR 2018/2019**

**I. MILITARY ENGINEERING INFRASTRUCTURES**

*Head of the research field: Dr. Zoltán Kovács PhD*

1. Infrastructure issues of installation's large crowds accommodated camps  
Supervisor: Dr. habil. Tibor Kovács PhD
2. Research and analysis of protective measures against terrorist blast attacks, development of procedures and technical background.  
Supervisor: Dr. Zoltán Kovács PhD

**II. MILITARY TECHNOLOGY AND ROBOTICS**

*Head of the research field: Dr. Károly Turcsányi DSc*

1. Theory and Practice of Research and Development (R&D) in Military Technology, Hungary and NATO.  
Supervisor: Prof. Dr. György Kende DSc
2. Studying chess and its information technology background to find analogies and application possibilities regarding battlefield operations, armaments development, decision making, military training and education  
Supervisor: Prof. Dr. György Kende DSc

**III. DEFENCE ELECTRONICS, INFORMATICS AND COMMUNICATION**

*Head of the research field: Prof. Dr. Zsolt Haig PhD*

1. Capability-based analyses of command posts and their communication and information support  
Supervisor: Dr. habil. Tibor Farkas PhD
2. Technical equipment's, capabilities and development trends of communication and information support of joint military operations in a multinational area  
Supervisor: Dr. habil. Tibor Farkas PhD
3. Development of CIS on stationer level  
Supervisor: Dr. Károly Fekete PhD
4. Cyber warfare  
Supervisor: Prof. Dr. László Kovács PhD
5. Technical questions of IT systems, applications and devices supporting the military forces, and the defence sphere;  
Supervisor: Prof. Dr. Sándor Munk DSc
6. Use of e-learning and distance learning in military higher education  
Supervisor: Dr. György Seres DSc

#### **IV. MILITARY ENVIRONMENTAL SECURITY**

***Head of the research field: Prof. Dr. László Földi, PhD***

1. Climate change and military security

Supervisors: Prof. Dr. József Padányi DSc,  
Prof. Dr. László Földi PhD

2. The relationship between environment and security

Supervisor: Prof. Dr. Klára Sipos Kecskeméthy, CSc

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

Supervisor: Prof. Dr. Enikő Anna Tamás, PhD

#### **VII. DISASTER MANAGEMENT**

***Head of the research field: Dr. habil. Lajos Kátai-Urbán PhD***

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

Supervisor: Dr. habil. Lajos Kátai-Urbán PhD

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

Supervisor: Dr. habil. Ágoston Restás PhD

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

Supervisor: Dr. habil. Gyula Vass PhD

4. Effectiveness approach research of disaster management activities and equipment

Supervisor: Dr. habil. Ágoston Restás PhD

5. Research and development of nuclear security and emergency response

Supervisor: Prof. em. Dr. József Solymosi DSc  
Dr. Kristóf Horváth PhD

6. Intervention capabilities of disaster management and fire services, opportunities for their expansion

Supervisor: Dr. habil. Ágoston Restás, PhD  
Co- Supervisor: Dr. Péter Pántya, PhD

Budapest, October 03, 2017