**List of Subjects**

**Basic courses (subjects) in the field of safety and security science:**

Risk analysis using probabilistic methods – László HANKA

Publication standards, knowledge – Zoltán RAJNAI

The place and role of security science in the system of sciences – Zoltán RAJNAI

**Research topic related basic courses (subjects):**

Global security threats and trends – Tibor BABOS

Central issues of European security – Tibor BABOS

The regulation and institutional framework of occupational safety and health in the European Union and Hungary - Gyula SZABÓ

Safety against brittle fracture – Tünde Anna KOVÁCS

Analysis of Damage Failures for Structural Materials – Tünde Anna KOVÁCS

Introduction to the theory of vibrations - Lívia CVETITYÁNIN

Strong nonlinear vibrations - Lívia CVETITYÁNIN

Weak nonlinear vibrations - Lívia CVETITYÁNIN

Fuzzy inference systems and their applications – Edit LAUFER

Information security standard theories – András KERTI

Transport safety – Judit LUKÁCS

Modern techniques and their engineering applications – Judit LUKÁCS

Critical Infrastructures – Zoltán RAJNAI

Qualitative research methodology and analysis– Anikó KELEMEN-ERDŐS

Mathematical software applicatIons – László HANKA

Technical reliability – László POKORÁDI

Model studies of operational processes – László POKORÁDI

Automatic Flight Control Systems of the UAV/UASs – Róbert SZABOLCSI

Criteria of the Ground/Air Maintenance of the UAV/UAS Systems – Róbert SZABOLCSI

Flight Safety of the UAV/UAS Systems – Róbert SZABOLCSI

Computer Aided Design and Safety Analysis of Control Systems – Róbert SZABOLCSI

Modern Control Engineering in Mechatronics – Róbert SZABOLCSI

**Optional subjects:**

Hungarian military and police operations on the African continent – János BESENYŐ

Various aspects of critical infrastructure protection - János BESENYŐ

African conflicts - János BESENYŐ

The role of the defence industry in international great power politics, the development opportunities of the defence industry- János BESENYŐ

African peacekeeping and peace support operations - János BESENYŐ

Theory of Vibration – Lívia CVETITYÁNIN

Chaotic dynamics - Lívia CVETITYÁNIN

Strong nonlinear vibrations - Lívia CVETITYÁNIN

Probability theory in analyzing of the risk - Lívia CVETITYÁNIN

Measurement theory and measurement technique – Árpád CZIFRA

Mathematical tools of motion analyses in biomechanics – István BÍRÓ

Multibody Dynamics in Biomechanics – Gusztáv FEKETE

Marketresearch in the practice – Mónika GARAI-FODOR

African economies – Szabolcs PÁSZTOR

Managements Issues of Smart Grids – Noémi PIRICZ

Modelling of Technical Systems – László POKORÁDI

Fuzzy Methods Supporting Decision-Making –– László POKORÁDI

Customer Relationship Management systems – Regina REICHER

Application of SPSS software in statistics – Regina REICHER

Safety of the design and use of machines and work tools – Gyula SZABÓ

Ergonomic design of workplaces – Gyula SZABÓ

Programming in MATLAB – Róbert SZABOLCSI

Control System Design using MATLAB – Róbert SZABOLCSI

Online business systems’ information security challenges – Andrea TICK

Modern statistical methods in Research – Andrea TICK

Critical infrastructure protection research – Tibor BABOS

Risk analysis methodology – András KERTI

Long-term corporate success - A secure company – Katalin GYÖRGY TAKÁCSNÉ

Database planning and usage – András KESZTHELYI

Measurement of Non-Electrical Quantities – József SÁROSI

**Subjects are not advertised automatically, you must indicate your intention to enrol!**

**Only subjects agreed in advance with the lecturer may be entered in the admission table!**

**For contact details of the teachers, please contact the Doctoral School Secretariat!**