

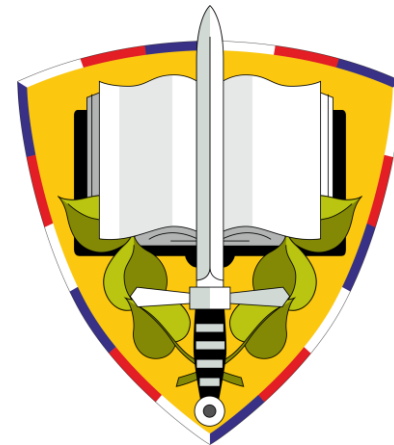
# Univerzita obrany

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## Kateřina Nováčková

Ph.D. student

[katerina.novackova@unob.cz](mailto:katerina.novackova@unob.cz)



## Introduction

The University of Defence primarily educates military professionals and experts to work for national security and defence systems as requested by the Army, government administration and obligation to other democratic countries. The process is based on the latest knowledge of defence, research and development at both national and international levels and internal research.

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## Faculty of Military Technology

### **We offer**

University of Defence (UoD) can offer its activities mainly in these pillars:

1. *Knowledge of weapon systems (WS)*
2. *Cooperation in Defence and Security R&D*
3. *Student exchange; Mgr and Ph.D.*
  - *both military and civilian*

### **We are looking for**

1. Partners in Defense and Security education
  - ERASMUS +
  - partner organization for Ph.D. student internships
2. R&D COLLABORATION
  - optical devices of Weapon Systems
  - field testing of optical systems
  - hyperspectral imaging and camouflage synergy
  - research on optical fiber polarization sensors



### Field testing of optical systems

- Devices and methodology for testing in VIS, NIR, LW, MW



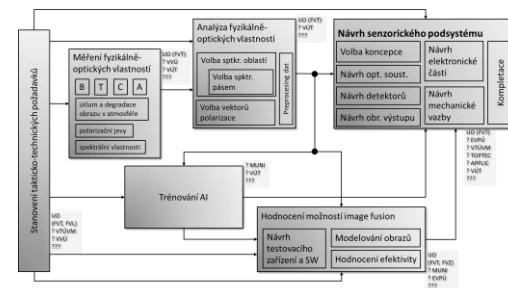
### HS imaging and Camo synergy

- Specim HS in VIS, NIR + SWIR (400 – 2500) nm
- Evaluation of camo effectiveness



### O-E devices of WS

- Bridging the O-E parameters and WS tasks
- Cooperation in R&D of O-E



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**Assoc. Prof. Eng. Martin Kyselák, Ph.D.**

[martin.kyselak@unob.cz](mailto:martin.kyselak@unob.cz)

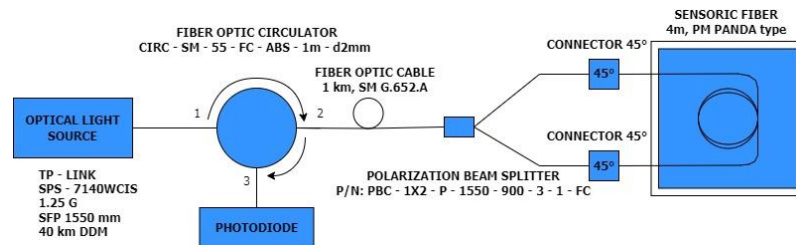
## Research on optical fiber polarization sensors

- remotely powered sensors based on PM fibers
- possible use of circulators, DWDM technology and polarization multiplex
- possible applications in military security technology



# Faculty of Military Technology

## Department of Electrical Engineering



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Department of Air Force (K-205)  
Department of Aviation Technology (K-206)  
Department of Communication Technologies, Electronic  
Department of Warfare and Radiolocation (K-207)  
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Department of Mechanical Engineering (K-216)  
Department of Electrical Engineering (K-217)

