



**Armed Forces Academy
of General Milan Rastislav Stefanik
Demanova 393, 031 06 Liptovsky Mikulas**

ERASMUS offer for incoming students

Department	Department of Electronics
Subject/ title	Sensor systems
Credits	4 ECTS
Hours	30
Level (Bachelor/master)	Master
Tutor(s)	Maj. Ing. Roman BEREŠÍK, PhD.
Exam type	Written exam (test)
Description	The aim of this subject is to provide students with the information regarding to principles of modern sensors and sensor systems used in military and security applications.
Teaching Content	Concept of sensor systems Sensors and sensor system's properties Principles of wireless sensor systems and their applications Algorithms of digital signal processing used in sensor systems Principles of events detection by using sensor systems Wireless sensor networks
Reading materials	S. V. Vaseghi: Advanced Digital Signal Processing and Noise Reduction, 2 nd Edition, John&Wiley, 2000, S. M. KUO, B. H. LEE, W. TIAN: Real-Time Digital Signal Processing: Fundamentals, Implementations and Applications, 3 rd Edition, John&Wiley, 2013, Ch. BELL: Beginning Sensor networks with Arduino and Raspberry Pi, Apress, 2013, Gerard C.M. MEIJER: Smart Sensor Systems, John&Wiley, 2008,
Remarks	