

**DOCTORAL SCHOOL OF SAFETY AND SECURITY SCIENCES –
ÓBUDA UNIVERSITY (ID of Institute: FI 12904)**

FUNDAMENTAL RESEARCH TOPIC SUBJECTS

Name of Subject: *The theory and instruments of biometrical identification*

Credit Value of Subject: 6

Lecturer of Subject: *Tibor Kovács CSc/PhD*

Course Objectives:

To familiarize students with possible utilizations of biometrical identification, its characteristics as well as its legal, social, technological and security aspects of application. To acquire elementary utilization of fingerprint, handgeometry, vein and iris instruments.

Number of Lessons: 30

Preconditions of Subject: *None*

Course Description:

Potential application of biometrical identification besides access control. Legal, social, technological and economic implications. Security aspects of biometrical instruments. Identification possibilities (fingerprint, handgeometry, face, palm-, and fingervein, ear, iris, retina, DNA, voice, etc.). Laboratorial practice – Biometrical identification instruments at Donát Bánki Faculty based on biometry (card writer, fingerprint and fingerroll register).

Recommended Literature:

Kadena Esmeralda, Kovács Tibor

THE NEED FOR BYOD SECURITY STRATEGY

HADMÉRNÖK 12:(4) pp. 138-145. (2017)

Földesi Krisztina, Kovács Tibor

ATTITUDE CHANGE TOWA RDS BIOMETRY BETWEEN 2006 AND 2016

HADMÉRNÖK XII:(1) pp. 6-16. (2017)

Fialka György, Kovács Tibor

THE CORRELATION AMONG TECHNICAL PARAMETERS, CONDITIONS OF APPLICATION AND BIOMETRICAL IDENTIFICATION

HADMÉRNÖK XI:(2) pp. 1-10. (2016)

Fialka György, Kovács Tibor

THE VULNERABILITY OF BIOMETRIC METHODS AND DEVICES

ANNALS OF FACULTY OF ENGINEERING HUNEDOARA - INTERNATIONAL JOURNAL OF ENGINEERING XIV: (3) pp. 45-48. (2016)

Lourdes Cecilia Ruiz Salvador, Kovács Tibor

**BIOMETRIC INFORMATION ACQUISITION, PRIVACY ISSUES
AT THE WORKPLACE: MONITORING VERSUS SECURITY**

In: Proceedings of 8th International Engineering Symposium at Bánki
(IESB 2016). pp. 10-17. (ISBN:978-615-5460-95-1)

Földesi Krisztina, Kovács Tibor

**SPECIFICATION IN THE PRACTICE OF LAW ENFORCEMENT (APPLICATION OF
BIOMETRY)**

ACTA TECHNICA CORVINIENSIS – BULLETIN OF ENGINEERING 8:(3) pp. 155-
160. (2015)

Földesi Krisztina, Kovács Tibor

**SPECIFICATION OF THE APPLICATION OF BIOMETRY IN THE PRACTICE OF LAW
ENFORCEMENT**

In: László Gogolák, Igor Fürstner (szerk.)

Proceedings of the 3rd International Conference and Workshop Mechatronics in Practice and
Education - MECHEDU 2015, Subotica Technical College of Applied Sciences, 2015. pp. 53-
60. (ISBN:978-86-918815-0-4)