COURSE TITLE:

REMOTE SENSING

COURSE DESCRIPTION:

Knowledge: History, evolution and types of remote sensing. Passive remote sensing: multispectral scanner technology, CCD technologies. Active remote sensing: radar scanning, radar interferometry, LIDARs, elevation modelling. Satellite orbits and orbit elements. Satellite types. Aerial remote sensing, image ortho-rectification. Interpretation of true color satellite imagery and aerial photographs.

Competences: capability of estimation of the order of involved quantities, capability of accomplishing basic geometric computations connected to remote sensing and satellite orbits, ability of choosing the appropriate remote sensing input database for an environmental project.

LITERATURE:

Lillesand-Kiefer-Chipman: Remote Sensing and Image Interpretation (7th Edition, 2014). Wiley & Sons

TEACHER:

Gábor Tímár

associate professor