Subject name: **Elements of Digital Photogrammetry**	*NEPTUN-code:* **AGIEP0KFND**	*Weekly hours:* 0-2-0
Credits: 2 ***Req.:*** Assignment	***Prerequisites:*** -	
Subject leader: **Dr. Jancsó Tamás**	**Ass. Prof.**	***Faculty and Department:*** Alba Regia Technical Faculty Institute of Geoinformatics

Description of Subject

Introduction, evaluation process, applied software, other learning tools. Digital orientations – camera definition, interior orientation, automated measurement. Exterior orientation, control points. Model definition. Measurement of object co-ordinates. DTM measurement and generation, automated measurement, accuracy checking, quality control. Production of ortho photos. Evaluation methods, mapping. Theory of aerial triangulation – measurement and block adjustment. Mosaics of DTMs and ortho images. Practical lessons in close range photogrammetry. Theory and practice of Digital Monoplotting. 3D modelling in photogrammetry.

Literature:

Compulsory:	Wilfred Linder: Digital Photogrammtry, A Practical Course, Third Edition, Springer-Verlag, 2009, ISBN: 978-3-540-92724-2
	PPT presentations
	Tamás Jancsó: Photogrammetry, Modular Course Book of Data Acquisition and Integration, Chapter 5, University of West Hungary, Project No: TÁMOP - 4.1.2-08/1/A-2009-0027, 2011
Recommended:	T. Luhmann, S. Robson, S. Kyle and I. Harley: Close Range Photogrammetry, Whittles Publishing, 2006, ISBN 1-870325-50-8