GED 511 Fundamentals of Surveying and Mapping (3+0+0) 3 ECTS 7  
Autumn 2018-2019

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COURSE DESCRIPTION
Basic concepts of surveying and mapping; principal surveying instruments and accessories; measurement of angles and distances; error concepts in surveying operations; elements of control network; surveys for locating details; map plotting and drafting; types of surveying: topographic, cadastral, engineering, route, mine, hydrographic, industrial surveying; uses of surveys; elements of surveying projects; elements of photogrammetry; map projections.

REFERENCE BOOKS

COURSE CONTENT

Definition of Surveying  
Practice the use of measuring tape  
Distance Measurement  
Building Measurement  
Triangulation  
Levelling  
Angular Measurements  
Traverse Calculation  
Tacheometry Calculation  
Building Height Measurement  
GPS Measurement

COURSE OBJECTIVES
To introduce principal surveying equipments and how to use them. To provide necessary knowledge and skills for surveying problems.

GRADING
Office work 25%  
Fieldwork 25%  
Final exam 50%