Boğaziçi University
Kandilli Observatory and Earthquake Research Institute
Department of Geodesy

GED 581 High Precision GPS Geodesy (3+0+0) 3 ECTS 7
Spring 2018-2019

Instructor: Aslı Doğru

COURSE DESCRIPTION

Historical development of GPS for high precision applications; obtaining high precision by using GPS; use of GPS in geophysical experiments; GPS for determining horizontal and vertical crustal movements; error sources on vertical positioning with GPS; GPS for determining global sea level rise; earthquake monitoring using GPS; using GPS for determining earth rotation and polar motion.

REFERENCE BOOKS

- ✓ Kaplan, E. and C.J. Hegarty (eds.), 1996, Understanding GPS: Principles and Applications
- ✓ Leick, A., 1995, GPS Satellite Surveying

COURSE OBJECTIVES

After completing this course, students should be able to design a GPS research project, collect GPS data, process the data, analyse results.

GRADING

Homework/Presentations	20%
Labs	20%
Midterm exam	20%
Final exam	40%