

Graduate School Learning Outcomes

Graduate Certificate in Surveying Engineering

June 2022

GSLG #1: Understand, interpret, shape, and augment the knowledge base

PLO #1 satisfied by:

- a. Evaluate the theoretical and practical application of emerging technologies in surveying engineering such as Unmanned Aerial Vehicles, Lidar, Close-range photogrammetry, hydrographic surveying, and modern aspects of geodesy.
- b. Apply emerging technologies in survey engineering.
- c. Articulate the latest research in technologies such as Unmanned Aerial Vehicles, Lidar, Close-range photogrammetry, hydrographic surveying, and modern aspects of geodesy.

GSLG #2: Share disciplinary expertise openly, effectively, and accurately

PLO #2 satisfied by:

- a. Apply professional best practices tools to convert research concepts into cost effective production techniques in surveying engineering topics such as Unmanned Aerial Vehicles, Lidar, Close-range photogrammetry, hydrographic surveying, and modern aspects of geodesy.
- b. Explain trends in advanced boundary law principles.
- c. Apply advanced boundary law principles to land survey practices.

GSLG #3: Demonstrate responsible and ethical practice

PLO #3 satisfied by:

- a. Discriminate most effective strategies in advanced boundary law that is in the best interest of the broader public.
- b. Discriminate most effective strategies in emerging technologies of surveying engineering that lend to the best interest of the broader public.