Credit for Prior Learning Examination

EGT 300 – Statics and Strength of Materials

Course Description

EGT 300 – Statics and Strength of Materials (3 credits)

PREREQ: PHY 211 or PHY 220, MAT 119 or MAT 128

Theory and application of the mechanics of rigid bodies in equilibrium; mechanical properties of materials; stress; strain; torsion; shear force and bending moments; bean deflection; combined loading.

Exam Details

Students will be assessed on their ability to attain the outcomes below:

- 1. Select and apply knowledge of statics to the design of mechanical systems
- 2. Select and apply techniques of statics and strength of materials to the testing and evaluation of mechanical systems
- Select and apply knowledge and techniques of statics and strength of materials to selection of materials to solve mechanical problems
- 4. Conduct standard tests and measurements of statics and strength of materials
- 5. Calculate the forces and moments on members of engineering structures
- 6. Calculate the stresses and strains in members of engineering structures

Free Text on Applied Statics and Strength of Materials found at the below link:

http://opus.ipfw.edu/cgi/viewcontent.cgi?article=104 8&context=mcetid facpubs



Testing Services University Center 101 (859) 572 - 6373 <u>testing@nku.edu</u>