

ENGINEERING MECHANICS (EGEM)

EGEM 220 Statics 3 Credit Hours (3,0) (3,0,1)

A study of theory and application of engineering mechanics principles with emphasis on vector analysis, free body diagrams, properties of areas, and problem solving. This emphasis includes applying principles of equilibrium to particles and rigid bodies.

Prerequisite(s): EGNR140

Pre or Corequisite(s): MATH152 and PHYS231

EGEM 320 Dynamics 3 Credit Hours (3,0) (3,0,1)

A study of theory and applications of dynamics and problem-solving techniques. Topics include position, velocity, and acceleration analysis of particles and rigid bodies. Newton's second law, work and energy and impulse and momentum are covered.

Prerequisite(s): MATH152 and EGEM220