Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

SLO 1: Mathematics, science and engineering  
Ability to apply knowledge of mathematics, science and engineering

Related Measures

M 1: Assessment of departmental rubric  
Assessment of departmental rubric in all contributing courses  
Source of Evidence: Academic direct measure of learning - other  
Target: Average score of 80% or higher and a minimum score greater than 60%.

M 2: FE test scores  
FE test scores (nationally normed)  
Source of Evidence: Standardized test of subject matter knowledge  
Target: 60% of students will pass the FE exam

SLO 2: Techniques, skill, and modern engineering tools  
Ability to use the techniques, skill, and modern engineering tools necessary for engineering practice

Related Measures

M 1: Assessment of departmental rubric  
Assessment of departmental rubric in all contributing courses  
Source of Evidence: Academic direct measure of learning - other  
Target: Average score of 80% or higher and a minimum score greater than 60%.

M 3: Alumni/Industry surveys  
Alumni/Industry surveys  
Source of Evidence: Alumni survey or tracking of alumni achievements  
Target: 80% of responses are "satisfactory" (3) or better

SLO 3: Identify, formulate, and solve engineering problems  
Ability to identify, formulate, and solve engineering problems

Related Measures

M 1: Assessment of departmental rubric  
Assessment of departmental rubric in all contributing courses  
Source of Evidence: Academic direct measure of learning - other  
Target: Average score of 80% or higher and a minimum score greater than 60%

M 3: Alumni/Industry surveys  
Alumni/Industry surveys  
Source of Evidence: Alumni survey or tracking of alumni achievements  
Target: 80% of responses are "satisfactory" (3) or better

SLO 4: Design a system or process  
Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

Related Measures

M 1: Assessment of departmental rubric  
Assessment of departmental rubric in all contributing courses  
Source of Evidence: Academic direct measure of learning - other  
Target: Average score of 80% or higher and a minimum score greater than 60%

M 4: Senior design projects  
Grade in senior design projects (NAME 4175)  
Source of Evidence: Project, either individual or group  
Target:
All students achieve a grade of "C" or better

**SLO 5: Fluid mechanics, dynamics, structural mechanics, material properties, hydrostatics and energy/propulsion systems**
Basic knowledge of fluid mechanics, dynamics, structural mechanics, material properties, hydrostatics and energy/propulsion systems in the context of marine vehicles

**Related Measures**

**M 1: Assessment of departmental rubric**
Assessment of departmental rubric in all contributing courses
Source of Evidence: Academic direct measure of learning - other
**Target:**
Average score of 80% or higher and a minimum score greater than 60%

**M 5: Graduating student self-assessment**
Graduating student self-assessment (exit interviews)
Source of Evidence: Exit interviews with graduates/program completers
**Target:**
Students rate themselves 3 or above (scale from 0 to 5)