TADD 4690: TAD LAB: Geometric Dimensioning and Tolerancing

A. COURSE DESCRIPTION

   Credits: 2
   Lecture Hours/Week: 0
   Lab Hours/Week: 0
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   Students will learn the skills needed to create engineering designs that clearly communicate the intent of a part to avoid mistakes that can occur during the manufacturing process. The common language, known as GD&T, can help facilitate communication amongst key team members responsible for producing a part. GD&T is an invaluable tool required to communicate the desired form, fit, function, and interchangeability of a part. Prerequisite(s): TADD 3690.

B. COURSE EFFECTIVE DATES: 08/01/2024 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Basic dimensioning
   2. Datums and features
   3. GD&T symbols
   4. Material condition modifiers
   5. Feature control frames

D. LEARNING OUTCOMES (General)

   1. explain general dimensioning concepts.
   2. identify and implement the symbols and datums used in GD&T drawings.
   3. identify the various application options of GD&T.
   4. create and read a GD&T drawing.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted