

# ME 315 : Machine Design

This course teaches the function, design and performance of basic machine elements commonly used by mechanical engineers, such as shaft, temporary and permanent fasteners, key, thick wall vessel, etc. Students will develop skills in designing and analysing performance capabilities of these elements based on static and dynamic combined loading. The course will also cover potential topics such as part geometry, material choice, loading and environmental conditions, static and fatigue failure theories, factor of safety concept.

**Credits** 3

**Lab Hours** 0

**Lecture Hours** 3

**Tutoring Hours** 0

**Prerequisite Courses**

ME 208

**Corequisites**

none