

**Course Name:**

Membrane & Shell Structures

<b>Course Number:</b> 20-132	<b>Credit:</b> 3
<b>Program:</b> Graduate	<b>Course Type:</b> Technical Selective
<b>Prerequisite:</b> -	<b>Corequisite:</b> -

**Course Description (Objectives):**

The main objective of this course is to familiarize students with different types of shells and membranes and their structural behavior. Students will learn how to analyze, design, and assess the stability of concrete and steel shells and membranes.

**Course Content (outline):**

- Chapter 1: Introduction
- Chapter 2: Membrane
- Chapter 3: Cylindrical Shells
- Chapter 4: Shells with Axisymmetric Loading
- Chapter 5: Instability of Membranes and Shells
- Chapter 6: Design of Concrete Membranes and Shells
- Chapter 7: Design of Steel Membranes and Shells

**References:**

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