

	<b>National University of Sciences and Technology</b>	
	<b>Course Description</b>	
<b>Course Title</b> Theory of plasticity	<b>Course Code</b> <b>ME 861</b>	<b>Credit Hours</b> 3 – 0

**Textbook:**

- R. Hill, The Mathematical Theory of Plasticity, Oxford at the Clarendon press.

**Course Objective:**

- Enable students to comprehend and apply the principles and theories of plasticity in materials, facilitating their ability to analyze and design structures under conditions of permanent deformation.

**Course Outline:**

Stress strain curve, General theorems, Solution of plastic-elastic problems, Plane plastic-strain and theory of the slip-line field, Two dimensional problems of steady motion, Non-steady motion problems in two dimensions.

**ASSESSMENTS**

<b>Description</b>	<b>Percentage Weightage (%)</b>
Assignments	05-10%
Quizzes	10-15%
Mid Semester Exams	30-40%
End Semester Exam	40-50%