



University of Jordan

Faculty of Engineering and Technology

Mechanical Engineering Department

### Course Plan

<b>Course Title</b>	<b>Engineering Mathematics</b>
<b>Course No.</b>	904901
<b>Credit Hours</b>	3
<b>Instructor</b>	
<b>Reference</b>	<b>Advanced Engineering Mathematics</b> , Erwin Kreyszig Wiley, 9 <sup>th</sup> Edition <b>Advanced Engineering Mathematics</b> , C. Wylie and L. Barrett McGraw Hill
<b>Course Content</b>	<ul style="list-style-type: none"><li>• Calculus of Variations</li><li>• Matrix Theory and Linear Algebra</li><li>• Vector Calculus</li><li>• Complex Analysis</li><li>• Descriptive Theory of Ordinary Differential Equations</li><li>• Introduction to Perturbation theory</li></ul>
<b>Grading</b>	<ul style="list-style-type: none"><li>• Midterm Exam 30 %</li><li>• Home works 30 %</li><li>• Final Exam 40 %</li></ul>

**Best Wishes and Good Luck**