

**Al-albays University**  
**Faculty of Finance and Business Administration**  
**Department of Business Administration Course:**  
**Material Management (502423)**  
**Instructor: Dr. Ziad Smadi**  
**First Semester: 2015-2016**  
(Compulsory)

**Course Description and objectives :**

*The aim of this course is to provide the student with the concepts and importance of Material Management to understand the operation environment & the supply chain concept & supply chain metrics. Also understanding how we can plan the production system and to know what is enterprise resource planning (ERP), and to how to develop & understand the master production schedule and material requirement planning (MRP)*

<i>FIRST &amp; 2ed. week</i>	<b>Chapter 1: Introduction:</b> <i>The importance of material management the supply chain concept</i>
<i>3ed. &amp; 4th week</i>	<b>Chapter 2: production Planning System</b> <i>Manufacturing Planning &amp; control</i> <i>Sale &amp; operational planning</i> <i>Manufacturing resource planning</i>
<i>5<sup>TH</sup>. week</i>	<i>First. exam</i>
<i>6th. &amp; 7<sup>TH</sup> &amp; 8<sup>th</sup>. &amp; 9<sup>th</sup>.</i>	<b>Chapter 3: Master Scheduling:</b> <i>Relation to production plan</i> <i>Developing master production schedule</i> <i>Production master scheduling &amp; sale</i>
<i>10<sup>th</sup>. Week 2ed. Exam</i>	
<i>11<sup>TH</sup>. &amp; 12th. week</i>	<b>Chapter 4: Material requirement planning:</b> <i>Bill of Material</i>

	<p><i>Material requirement planning process</i></p> <p><i>Using the Material requirement planning process</i></p>
<i>12<sup>TH</sup>. &amp; 13<sup>th</sup>. week</i>	<p><b><i>Chapter 5: Capacity Management</i></b></p> <p><i>: Defining capacity</i></p> <p><i>Capacity planning</i></p> <p><i>Capacity requirement plan(CRP)</i></p> <p><i>Capacity available</i></p> <p><i>Schedule order</i></p> <p><i>Making the plan</i></p>
<i>&amp; 14<sup>TH</sup>. &amp; 15<sup>th</sup>. week</i>	<p><b><i>Chapter 6: Production Activity control</i></b></p> <p><i>Data requirement</i></p> <p><i>Order preparation</i></p> <p><i>Scheduling</i></p> <p><i>Load leveling</i></p>

<i>Distribution of marks</i>	
<i>First. exam</i>	<i>20 marks</i>
<i>2ed. exam</i>	<i>20 marks</i>
<i>Discussion</i>	<i>10 marks</i>
<i>Final exam</i>	<i>50 marks</i>

*References: Introduction to Material Managemen:J.R. Tony Arnold ,Stephen N. Chapman, Lliod M.Clive,Pearson prentice Hall, Pearson Education Australia Pty Limited.*