

**University of Computer Studies(Taunggyi)**  
**FC-301 (Operation Research (Part I))**

Subject Code	Subject	Description	Lecture Hour	Accessment
FC-301	Operation Research	<p><b>Introduction to Linear Programming</b></p> <ul style="list-style-type: none"> <li>• The Linear Programming Model</li> <li>• Assumption of LP</li> <li>• Formulating and Solving LP Model</li> </ul> <p><b>Solving LP problem: The Simplex Method</b></p> <ul style="list-style-type: none"> <li>• Setting Up the Simplex Method</li> <li>• The simplex method in Tabular Form</li> </ul> <p><b>Duality Theory And Sensitivity Analysis</b>            The essence of Duality Theory            Primal-Dual Relationships</p> <ul style="list-style-type: none"> <li>• Other Algorithms for LP</li> <li>• The Dual Simplex Method</li> </ul> <p><b>Inventory theory</b></p> <ul style="list-style-type: none"> <li>• Component of Inventory Models</li> <li>• Deterministic Continuous-Review Models</li> <li>• A Stochastic Continuous-Review Models</li> </ul>	24 hours (2 credit Unit)	Assignment - 20% Exam. – 80%

**Text book :** Introduction to Operation Research 9 th edition, by FREDERICK S. HILLER and GREALD J. LIEBERMAN