

**University of Computer Studies(Taunggyi)**

**FC-201 (Mathematics of Computing (Linear Algebra))**

<b>Subject Code</b>	<b>Subject</b>	<b>Description</b>	<b>Lecture Hour</b>	<b>Assessment</b>
FC-201	Linear Algebra	<ul style="list-style-type: none"><li>• Matrices, Vectors: Addition and Scalar Multiplication</li><li>• Matrix Multiplication</li><li>• Linear Systems of Equations. Gauss Elimination</li><li>• Linear Independence. Rank of a Matrix. Vector Space</li><li>• For Reference: Second- and Third-Order Determinants</li><li>• Determinants. Cramer's Rule</li><li>• The Matrix Eigenvalue Problem. Determining Eigenvalues and Eigenvectors</li></ul>	24 hours (2 credit Unit)	Assignment - 20% Exam. – 80%

**Reference books**

- Advanced Engineering Mathematics. 10th Edition. BD  
[freedownload link 4u. blogspot. com]
- Introduction to Correlation & Regression Analysis, Ferzad Javodanrad , November 2013