

<b>Programme</b>	Semester 2	<b>Course Code</b>	CC-108	<b>Credit Hours</b>	3
<b>Course Title</b>	Linear Algebra and Applications				
<b>Course Introduction</b>					
<ul style="list-style-type: none"> <li>Basic and Advance concepts of linear algebra</li> </ul>					
<b>Learning Outcomes</b>					
<p>On the completion of the course, the students will:</p> <ol style="list-style-type: none"> <li>Geometry</li> <li>Matrices and Determinants</li> </ol>					
<b>Course Content</b>				<b>Assignments/Readings</b>	
<b>Week 1</b>	Vectors				
<b>Week 2</b>	Vector				
<b>Week 3</b>	Vector Spaces				
<b>Week 4</b>	Vector Spaces				
<b>Week 5</b>	Matrices & Determinants				
<b>Week 6</b>	Matrices & Determinants				
<b>Week 7</b>	Linear Transformations				
<b>Week 8</b>	Operations on matrices				
<b>Week 9</b>	Inner products				
<b>Week 10</b>	Inner products				
<b>Week 11</b>	Eigenvalues & Eigenvectors				
<b>Week 12</b>	Eigenvalues & Eigenvectors				
<b>Week 13</b>	Applications to Systems of Equations and to Geometry				

<b>Week 14</b>	Applications to Systems of Equations and to Geometry	
<b>Week 15</b>	Revision	
<b>Week 16</b>	Revision	
<b>Textbooks and Reading Material</b>		
<b>Reference Books</b>		
<ol style="list-style-type: none"> <li>1. Lay, D.C. (2002). Linear Algebra, 3rd Ed., Amazon.</li> <li>2. Poole, D. (2003). Linear Algebra: A Modern Introduction, Amazon.</li> <li>3. Strang, G. (2003). Introduction to Linear Algebra, 3rd Edition, Amazon.</li> <li>4. Lipschutz, S., &amp; Lipson, M. (2002). Schaum's Easy Outline of Linear Algebra,</li> <li>5. Williams, G. (2004). Linear Algebra, Fifth Edition, Amazon.</li> </ol>		
<b>Teaching Learning Strategies</b>		
<ol style="list-style-type: none"> <li>1. Lectures</li> <li>2. Written Assignments</li> <li>3. Quizzes</li> </ol>		
<b>Assignments: Types and Number with Calendar</b>		
<ol style="list-style-type: none"> <li>1. Quiz</li> <li>2. Presentation</li> <li>3. Assignment</li> </ol>		