SCHOOL OF APPLIED SCIENCE & HUMANITIES
DEPARTMENT OF MATHEMATICS

Subject: Linear Algebra   Subject Code   : 25MT103

Sem.   : I   Academic Year: 2025-2026

Section: 7   Regulation: R25

T5 - Assignment 8

1. Define the following terms.
   a. Elementary row operations
   b. Row echelon form and Reduced Row echelon form
   c. Conditions for consistency of linear systems Ax=b
   d. Eigenvalues and Eigenvectors
   e. Vector space and Subspace
   f. Linear dependence of Vectors
   g. Span of Vectors
   h. Bases and dimension of vector space
   i. Inner product space
   j. Norm of a vector
   k. Orthonormal Vectors
   l. Cauchy-Schwarz Inequality
   m. Gram-Schmidt orthogonalization