

**SHIV NADAR UNIVERSITY CHENNAI, KALAVAKKAM – 603110**  
**SCHOOL OF SCIENCE & HUMANITIES - MATHEMATICS**

**REGULATION 2021**

**MA1001**

**LINEAR ALGEBRA**

**L T P C**

**3 1 0 4**

**(Common to B. Tech AI & DS, B. Tech CSE (IoT) & B.Tech CSE (Cybersecurity))**

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**Course Objectives:**

The objective of this course is to enable the student to

1. Find the basis and dimension of vector space.
  2. Obtain the rank and nullity of linear transformation.
  3. Find the eigenvalues and eigenvectors of the transformations.
  4. Find an orthonormal basis of inner product space.
  5. Perform matrix decomposition and find a least square approximation.
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