

# Enquire Teaching Timetable

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## Course Outcome

### MATH 1030 - Linear Algebra I

#### Learning Outcome

- Students are able to
- define and distinguish the usual concepts used in linear algebra
  - logically prove basic statements in linear algebra
  - solve problems using linear algebra, including those in an abstract setting
  - apply the methods of linear algebra to standard problems in physics, engineering, or business economics
  - appreciate the rationale and impact of linear algebra to human development in science and technology

#### Course Syllabus

Set notations; system of linear equations, Gaussian elimination; matrices, determinants; Euclidean vector spaces, subspaces, linear span, linear independence, bases and dimension; eigenvalues and eigenvectors, diagonalization; orthogonality, Gram-Schmidt process.

#### Assessment Type

	Assessment Type	Current Percent
1	Essay test or exam	55
2	Others	10
3	Short answer test or exam	35

#### Feedback for Evaluation

- Mid-term evaluation (optional)
- End-term evaluation (mandatory)

#### Required Readings

None

#### Recommended Readings

- Leon, Linear Algebra with Applications
- Johnson, Riess, Arnold, Introduction to Linear Algebra