

- SLO 1: Investigate angular measure and trigonometric functions.
- Objective 1a: Identify special triangles and their related angle and side measures.
- Objective 1b: Evaluate the trigonometric function of angles in degree and radian measure.
- Objective 1c: Manipulate and simplify trigonometric expressions.
- Objective 1d: Calculate powers and roots of complex numbers using DeMoivre's Theorem.
- SLO 2: Graph trigonometric functions and use identities to solve trigonometric equations.
- Objective 2a: Solve trigonometric equations, triangles, and applications.
- Objective 2b: Graph the basic trigonometric functions and apply changes in period, phase and amplitude to generate new graphs.
- Objective 2c: Evaluate and graph inverse trigonometric functions.
- SLO 3: Use trigonometric identities.
- Objective 3a: Prove trigonometric identities.
- Objective 3b: Use trigonometric identities to graph trigonometric functions.
- Objective 3c: Implement the use of trigonometric identities to solve trigonometric equations.
- SLO 4: Graph polar functions and parametric curves.
- Objective 4a: Graph basic parametric curves with proper paths of travel by plotting points or eliminating parameters.
- Objective 4b: Convert between polar and rectangular coordinates and equations.
- Objective 4c: Graph polar equations.
- SLO 5: Use trigonometric functions in applications.
- Objective 5a: Investigate arc length, linear velocity, and angular velocity.
- Objective 5b: Represent a vector (a quantity with magnitude and direction) in the form  $a\mathbf{i} + b\mathbf{j}$ .
- Objective 5c: Build and solve applications using sinusoidal models.