

## **ENG201 Engineering Mathematics - I (3+0+0 3 Units)**

- Complex analysis -Elements of complex algebra, trigonometric, exponential and logarithmic functions. Real number, sequences and series.
- Vectors -Elements, differentiation and integration.
- Elements of linear algebra.
- Calculus -Elementary differentiation. Relevant theorems.
- Differential equations -Exact Equations. Methods for second order equations. Partial differential equation. Simple cases -Applications.
- Numerical Analysis -linear equations, non-linear equations. Finite difference operators: Introduction to linear programming