

# Bridge course

## I semester BSc physics

### Syllabus (30 Hours)

#### **Module-I : (4 hours)**

What is science? Scientific method to solve problems- examples.

#### **Module-II : (8hours)**

Coordinate systems, Cartesian coordinate system, Plane polar coordinates, Spherical polar coordinates.

#### **Module-III: (8hours)**

Physical quantities, Vectors, Scalars, Vector addition and subtraction, Dot product and cross product of vectors, Vector triple products.

#### **Module -IV: (10 Hours)**

Motion, frame of reference, displacement, velocity, acceleration, uniform motion

