REPORT ON BRIDGE COURSE

TITLE : COORDINATE SYSTEMS

DATE : 04/01/2020 & 06/01/2020

BRANCH : ECE

YEAR/SEM : II/II

Department of ECE conducted a bridge course entitled "**Coordinate Systems**" for II-B.Tech ECE students on **04/01/2020 & 06/01/2020**. The course was conducted for two days from 9:00AM to 12:40PM and 2:00PM to 5:00PM on the scheduled dates. The course was handled by **Mr.C.LeelaMohan**, Associate Professor, department of ECE. The objective of this course is to give basic knowledge on Co-ordinate Systems, Transformations and Vector Calculus.

The topics covered under this bridge course are:

- Why Co-ordinate Systems?
- Types of Co-ordinate Systems.
- Cartesian Co-ordinate Systems
  (i)   Differential Increments
  (ii)   Relation b/w Cartesian to Other Co-ordinates
- Circular Cylindrical Co-ordinate Systems
  (i)   Differential Increments
  (ii)   Relation b/w Circular Cylindrical to Other Co-ordinates

- Spherical Co-ordinate Systems
    - (i) Differential Increments
    - (ii) Relation b/w Spherical to Other Co-ordinates
- Del Operator
    - (i) Gradient of a Scalar
    - (ii) Divergence of a Vector
    - (iii) Curl of a Vector
    - (iv) Laplacian of a Scalar

Resource Person giving introduction about Coordinate systems

Resource person explaining about Transformations

Mr.C.LeelaMohan, Associate Professor, department of ECE
explaining about Vector Algebra and Vector Calculus