



NARAYANA ENGINEERING COLLEGE:: NELLORE
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report on Bridge Course

Title: Co-ordinate Systems

Date: 05/01/2019 & 19/01/2019

Branch: ECE

Year/Sem: II/II

Department of ECE conducted a bridge course entitled “**Co-ordinate Systems**” for II-B.Tech ECE students on **05/01/2019 & 19/01/2019**. The course was conducted from 9:00AM to 1:00PM on the scheduled dates. The course was handled by **Mr.C.LeelaMohan**, Associate Professor, department 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



The Resource person giving introduction about the Bridge course on Co ordinate systems which is related to current semester course EMTL.





Finally the students felt very happy and acquire the required knowledge to understood the concepts of “Electromagnetic Theory and Transmission lines”.