PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement
facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS030/2022
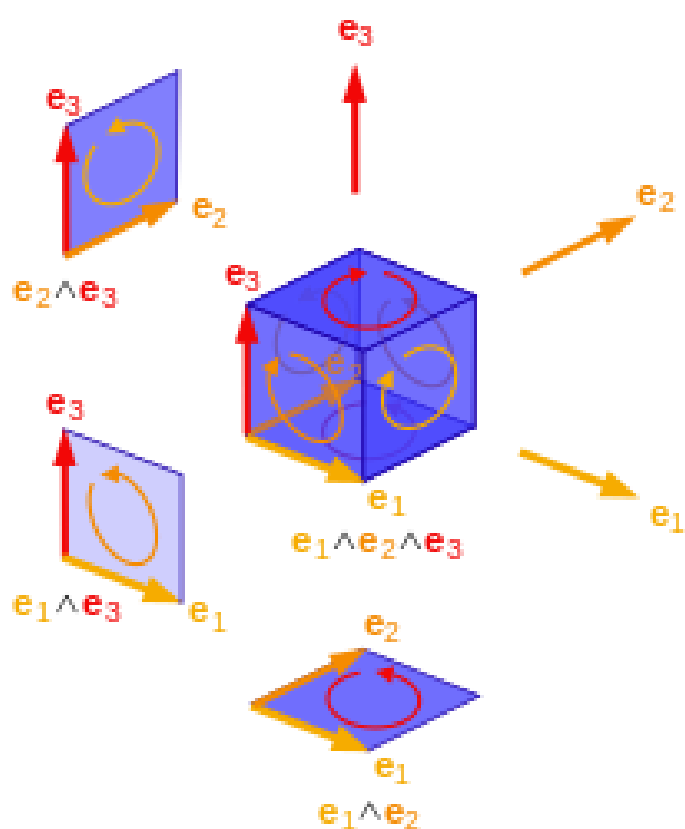
Vector Space Linear Algebra

Name of the PMRF student

Raj V Jain

Required background of the students taught

Prior knowledge of matrix multiplication & matrix inverse is useful but not necessary.

Online session coordinator

Will be chosen from the list of registrants

Details of the content of the module

Useful for anyone who wants to develop an abstract & intuitive understanding of Linear Algebra

Contents:

1. Abelian Group & Fields

2. Vector Spaces & Subspaces

3. Bases & Dimensions

4. Coordinates

5. Linear Transformations and their Algebra

6. Isomorphism

7. Representation of Transformations

8. Eigenvalues, Eigenvectors & Eigenspaces

Nature of Module: 2-hour lecture in which we'll do theory in the first one or one-and-half hour followed by problem solving and discussion for the remainder of the time.

Schedule of the module

Every Friday 10 AM – 12 PM

Starting date: Sep 2, 2022

Ending on Sep 30, 2022 (Tentative)

Total Hours: 10 (Tentative)

Meeting link : Will be shared later

Link

Contact email ID: isss.forum@gmail.com

Registration link:
https://forms.gle/mteNvirThzTQXobQ8