



Module PMRF-ISSSO##

Matrix Analysis

Name of the PMRF student

Arthi S, IISc Bangalore

Required background of the students taught

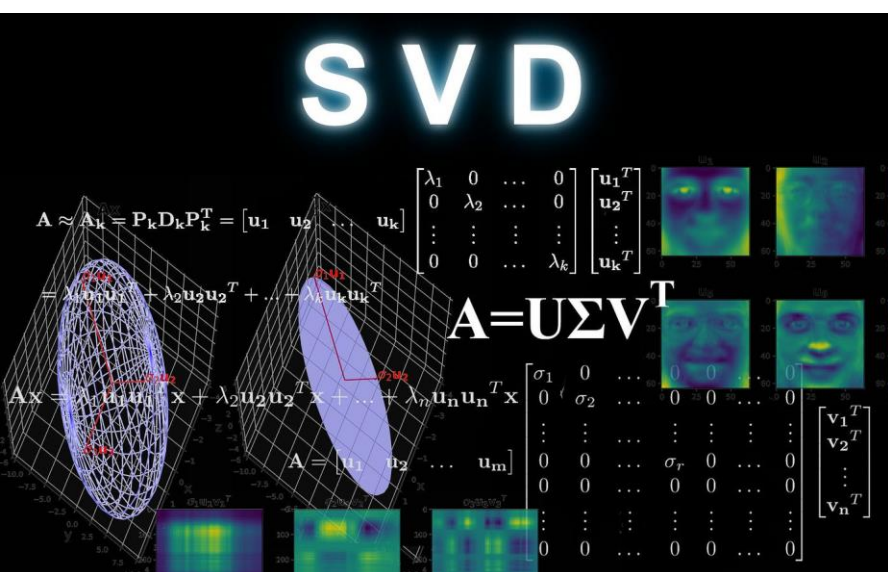
4th year UG and PG students from
Electronics and Communication
Engineering, Electrical Engineering and
Computer Science

Online session coordinator

Will be chosen from the list of registrants

Details of the content of the module

1. Review of linear algebra
2. Matrix properties: rank, determinants
3. Norms and properties
4. Eigen values and eigen vectors
5. Similar matrices, and diagonalizability
6. Unitary matrices and properties
7. LU decomposition
8. Cholesky decomposition
9. Hermitian matrices, and properties
10. Singular value decomposition (SVD)



Schedule of the module

Start date: Aug 31, 2023

End date: Dec 26, 2023

Lecture duration: 90 minutes

Recorded lectures will be uploaded at 4pm on
Tuesdays and Thursdays.

Meeting link : Will be shared later

[Link](#)

Contact email ID: issf.forum@gmail.com

Registration link:

<https://forms.gle/xc47ENK>