

About FDP

Linear algebra being a basic subject to learn for many fields of sciences such as Machine Learning, Deep Learning, Neural Networks, Supply Chain Management, Digital Signal Processing, Pattern Recognition, to name a few, it becomes mandatory for the researchers and faculties to revise and be updated with the subject. This FDP is mainly focused on brushing out the basics and bringing out the researches around the globe to discuss the applications in different domains. Both research scholars and faculties working in the linear algebra and its allied areas are welcome to participate, however, highly motivated graduate students will be permitted to attend.

This FDP introduces the basics of Linear Algebra at a post graduate level and showcase the applications in the current research.

What do we Cover in the FDP?

1. Matrices, Vector Spaces
2. Linear Transformation
3. Eigenvalues & Eigenvectors
4. Special Matrices
5. Decompositions
6. Inner Product Space
7. Applications in Graphs
8. Applications in Linear Complementarity Problems
9. Applications in Game Theory

Resource Persons



Dr. T. Parthasarathy
Department of Mathematics
CMI, Chennai



Dr. Arindama Singh
Department of Mathematics
IIT, Madras



Dr. K. Manjunatha Prasad
Department of Data Science
MAHE, Manipal



Dr. K.C. Sivakumar
Department of Mathematics
IIT Madras



Dr. Biswajit Deb
Department of Mathematics
SMIT, Sikkim



Dr. P. Vanchinathan
School of Advanced Sciences
VIT, Chennai



Dr. P. Sushmitha
School of Advanced Sciences
VIT, Chennai



VIT[®]

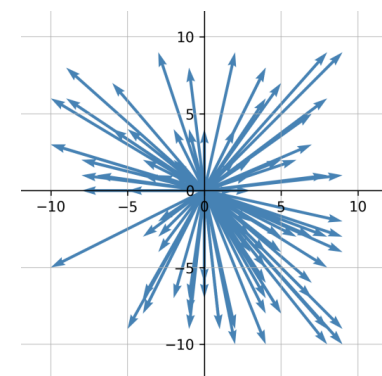
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

**Faculty Development Program
on**

Linear Algebra and its Applications

February 27 - March 03, 2023

For motivated Research Scholars and Faculties



Organised by

Division of Mathematics
School of Advanced Sciences (SAS)
Vellore Institute of Technology, Chennai, INDIA

VIT – A Place to Learn; A Chance to Grow

About the School

The School of Advanced Sciences (SAS) at VIT Chennai comprises Divisions of Mathematics, Physics and Chemistry. It offers the following programmes along with a plethora of core and elective courses facilitating B.Tech., M.Tech., MCA. Management and Law programmes.

- ✓ Ph.D. - Physics/Chemistry/Mathematics/Geology
- ✓ M.Sc. - Physics/Chemistry/Data Science
- ✓ B.Sc. Mathematics & Computing

Vellore Institute of Technology

On being founded in 1984, VIT has made a mark in the field of higher education in India imparting quality education in a multi-cultural ambience, intertwined with extensive application-oriented research.

VIT was established with the aim of providing quality higher education at par with institutions of international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education in all fields of science and technology.

VIT was established by the well-known educationalist and former parliamentarian, honorable **Dr. G. Viswanathan**, the Founder and Chancellor, a visionary who transformed VIT into a Centre of excellence in higher technical education. The Government of India recognized VIT as an Institution of Eminence (IoE). The ARIIA, Govt. of India recognized VIT as a No. 1 Private University for Innovation. The MHRD, Government of India ranked VIT at No.15 among the Engineering Institutions (NIRF-2020 ranking).

Vellore Institute of Technology, Chennai

VIT Chennai is a globally engaged, competitive, comprehensive and research-enriched university campus strategically positioned in the capital city of Tamil Nadu, to respond to major industrial, social, economic and environmental demands and challenges. VIT Chennai is ably spearheaded by Vice Presidents, Mr. Sankar Viswanathan, Dr. Sekar Viswanathan, Mr. G.V. Selvam, Assistant Vice President Ms. Kadhambari S. Viswanathan, Vice Chancellor Dr. Rambabu Kodali, and Pro Vice Chancellor Dr. V.S. Kanchana Bhaaskaran. They share in the mission to make VIT a global center. The focuses are to:

- Maximize the Industrial Connectivity.
- Create Centers of Excellence in niche areas of research.
- Enrich Technological and Managerial Human Capital nurtured in a multicultural ambience.
- Provide a common platform for the agglomeration of ideas of personnel from various walks of life for enriched learning.
- Create opportunities and exploit the available resources to benefit industry/society
- Foster International collaborations for mutual benefits in areas of research.

Registration

Interested participants must register and make the payment at <https://vitchennaievents.com/> by selecting the event and appropriate category "Select Club → FDP → Linear Algebra applications-{Student, Scholar, Faculty}".

	Early Bird on/before Feb 01, 2023	Late Registration
Faculty	₹ 1200	₹ 1500
Research Scholars	₹ 1000	₹ 1500
UG/PG students	₹ 750	₹ 1000

Last Date for Registration: **Feb 25, 2023**

Call for Young Scientists

Complete financial support may be provided for young scientists (highly motivated research scholars), depending on funding availability. Application may be submitted for the same to the convenors.

Accommodation

Accommodation for the participants will be arranged on payment basis inside the campus, if required. Depending on the funding availability, we may partially/fully waive off the accommodation charges.

Convenors

Dr. David Raj Micheal & Dr. Sushmitha P

Division of Mathematics, SAS, VIT, Chennai

✉ davidraj.micheal@vit.ac.in

sushmitha.p@vit.ac.in

☎ +91 7502878908; +91 9600628354