

Two Weeks Short Term Training Programme on Advances in Linear Algebra: Technology based Innovations

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Chairperson: Prof. Alka Tripathi
(HOD Mathematics, JIIT, NOIDA)

Coordinator(s):

Dr. Amit Srivastava

Dr. Lakhveer Kaur

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(June 14 - 26, 2021)

Organized by
Department of Mathematics
Jaypee Institute of Information
Technology
Noida
Website: www.jiit.ac.in

Overview

Linear algebra is essential to almost all areas of mathematics, especially in mathematical modelling of natural phenomena and it finds potential applications in Principal component analysis, Singular value decomposition, Word embeddings, Latent semantic analysis, Image representation as Tensors and many more. Furthermore, Linear algebra, is the backbone of many Machine learning and Data science algorithms. The primary focus of STTP is to explore contemporary and advanced revolutions in multi dimensional field of Linear algebra with special focus on applications in technology based innovations.

Resource Persons

The sessions in the workshop will be delivered by the eminent personalities and experts from JIIT NOIDA and other reputed academic institutions and universities.

About the University

The Jaypee Institute of Information Technology (JIIT) is declared as a deemed to be University under section 3 of UGC Act 1956. JIIT is fully backed and supported by the Jaypee Group of Companies through its not-for-profit trust – Jaiprakash Sewa Sansthan (JSS). It is situated near the Electronic City at Noida and is at a distance of about 3 Kms from New Delhi – UP border. The state-of-the-art campus aims at becoming a centre of excellence in the field of information technology & related emerging areas of education, training and research comparable to the best in the World for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management. The Institute offers Doctoral (Ph. D.), Post Graduate (M. Sc., M. Tech. and MBA) as well as Under Graduate (B. Tech.) programs in the various disciplines of Engineering, Sciences and Management. JIIT is a NAAC Accredited, AICTE approved and NIRF Ranked Institute in Delhi NCR.

Vision

To become a centre of excellence in the field of IT and related emerging areas of education, training and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity and management.

Mission

MISSION 1: To develop as a benchmark University in emerging technologies.

MISSION 2: To provide state-of-the-art teaching learning process and R&D environment.

MISSION 3: To harness human capital for sustainable competitive edge and social relevance.

Department of Mathematics

Mathematics plays a key role in the development of modern sciences, engineering, management and

many other important areas. With this aim in mind the Department of Mathematics was created from the very inception of the institute. Besides catering to the basic needs of the various B. Tech. / M. Tech./M.Sc. programs of the institute, it had a strong fervor towards research and development from the very beginning and efforts are being made for the convergence of Mathematics with other disciplines by introducing courses of interdisciplinary nature such as Fuzzy sets and systems, Information theory and coding, Fractals and Chaos, Finite Element Methods, Optimization Techniques etc. At present around 34 research scholars are working for Ph.D. degree in various areas of specialization.

Vision

To be a centre of excellence in teaching and research in basic and applied areas of Mathematics.

Mission

MISSION 1: To offer academic programs and courses in contemporary and emerging areas of Mathematics and its applications to develop analytical and problem-solving skills.

MISSION 2: To carryout quality research in emerging areas of Pure and Applied Mathematics.

MISSION 3: To foster interaction with national and international institutions for enrichment, application and dissemination of knowledge in Mathematics.

E-Certificate

The certificate of participation will be issued only to those candidates securing more than 80% attendance. Quiz will be conducted in between various session of the programme. Participation in quiz is mandatory. E-certificates will be sent to the participants by email.

Who can participate?

The program is open to all Research Scholars/Faculty Members/Scientists/Engineers working in Educational Institutes/ Industries/ R&D organizations. Participants are advised to keep laptops for hands-on practice during the sessions.

Mode of Workshop

All the sessions will be conducted in online mode via **Google Meet**.

How to Apply?

The interested persons can register through the following link with complete payment details:

<https://forms.gle/Wh619CJvLsf7Su5u6>

Registration Fee

Industry personnel	Rs. 500
Academicians	Rs. 300
Research Scholars/Students	Rs. 100

Participants can pay the fees by online mode. Last date of Registration is **June 8, 2021. Registration will be done on First come, First served basis.**

Bank Details for NEFT

Bank and Branch: ICICI Bank, CMS Mumbai
Beneficiary Name: Jaypee Institute of Information Technology

Account Number: JIITSTTP2021

IFSC code: ICIC0000104

Contact Persons:

Dr. Amit Srivastava, Dr. Lakhveer Kaur,
Department of Mathematics

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