

Resource Persons



Dr. Amritanshu Prasad,
Professor H
The Institute of Mathematical Sciences
Chennai

Science Academies' Lecture Workshop on Linear Algebra : Theory & Applications

30.11.2021 - 03.12.2021
(Virtual Mode)



Dr. Sundar Sobers,
Reader F
The Institute of Mathematical Sciences
Chennai



organized by

DEPARTMENT OF MATHEMATICS

KONGU ENGINEERING COLLEGE

(AUTONOMOUS)

PERUNDURAI, ERODE - 638060

Organizing Convener

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Session	Lecture topic	Speaker
30/11/2021		
Session I 5:25 pm – 5:30 pm	Opening Remarks	Dr. Sundar Sobers
5:30 pm – 6:30 pm		
Session II 6:45 pm – 7:45 pm	Linear transformations and their matrices	Dr. Sundar Sobers
01/12/2021		
Session III 5:30 pm – 6:30 pm	Matrix multiplication, geometric interpretation of special types of matrices	Dr. Sundar Sobers
Session IV 6:45 pm – 7:45 pm	Determinants, inversion of matrices	Dr. Sundar Sobers
02/12/2021		
Session V 5:30 pm – 6:30 pm	Eigen values and eigen vectors, characteristic polynomials	Dr. Amritanshu Prasad
Session VI 6:45 pm – 7:45 pm	Application: Linear equations, linear programming	Dr. Amritanshu Prasad
03/12/2021		
Session VII 5:00 pm – 6:00 pm	Application: Differential equations	Dr. Amritanshu Prasad
Session VIII 6:15 pm – 7:15 pm	Application: Linear algebra in data science	Dr. Amritanshu Prasad
7:15 pm	Valedictory	

About Science Academies

Indian Academy of Sciences (IAS), Bangalore founded in 1934 by Sir C.V. Raman, aims at promoting the progress and upholding the cause of science in the pure and applied branches. Its major activities include publication of scientific journals and special volumes, organizing meetings of the Fellowship and discussions on important topics, recognizing scientific talent, improvement of science education, and taking up other issues of concern to the scientific community. As part of the science education programs, the Indian Academy of Sciences, Bangalore in association with the Indian National Science Academy (INSA), New Delhi and The National Academy of Sciences, India (NASI), Allahabad organize programs for the improvement of science education in the Universities and Colleges throughout the country.

The Science Academies have been supporting two/three-day lecture workshops and fifteen-day refresher courses on topics of current interest throughout the country. All the programs conducted by the Joint Science Education Panel of the Academies are fully supported by the Department of Science and Technology, Govt. DST has undertaken a series of activities to mark 75 years of India's Independence (Azadi Ka Amrut Mahotsav). The Mahotsav is a series of S&T programs and events to be organized to commemorate the 75th anniversary of India's Independence. The curtain raiser activities began from 12 March, 75 weeks prior to 15 August 2022. The lecture workshops/refresher courses are part of the series in these programs. The Academy will also organize periodic lectures by eminent scientists. These programs will be adequately expanded in the celebration of the 75 years of Indian Independence.

About the Institution

Kongu Engineering College, a leading research-oriented institution with excellent facilities, is run by Kongu Vellalar Institute of Technology Trust [KVITT]. The Programs of the institute are accredited by NBA and the institute is accredited by NAAC and the Institute of Engineers. The Institution is located in a 167 - acre land richly endowed with beautiful greenery. It is an autonomous institution affiliated to Anna University, Chennai. The college has completed 37 years of dedicated and excellent service to the people of India in the field of Technical Education. The college offers 17 UG Programs, 19 PG Programs and 16 Research Programs in Engineering, Applied Sciences and Management. The institution is ranked high among the engineering institutions in India by various surveys conducted by reputed magazines/journals/organizations. It has an active industry institute partnership center to interact with industries and also has a Technology Business Incubator (TBI), first of its kind in India, nurturing entrepreneurs in high tech areas. Recently, a grant of Rs. 1 crore has been received from DST for the improvement of S&T infrastructure

About the Department

The Department of Mathematics occupies a prominent place in the annals of the academic history of the college since its inception in 1984. It offers Ph.D. degree program and produces efficient research scholars. It has 27 experienced faculty members including 20 doctorates with different specializations in Mathematics and its applications. It has also got sanctioned a project from University Grants Commission (UGC), New Delhi.

About the Workshop

Linear Algebra is the branch of mathematics that deals with linear equations, vector spaces, linear transformations and matrices. It provides powerful set of conceptual as well as computational tools for algorithms, economics, management, engineering and science. Hence it is a fundamental part of every curriculum in these areas. the goal of this workshop to is provide students and teachers of engineering and mathematics with a clear understanding of the basic concepts of linear algebra, their geometric meaning, and how they are applied

General Instructions

- Faculty Members handling Mathematics and UG/PG students of Science and Engineering can attend this workshop
- Free registration
- Number of participants is limited to 150 and selection is done on First come and First Served basis.
- Last date for registration: **25.11.2021**
- Selected participants will be intimated through their registered email. Workshop will be conducted through google meet platform.

Click the link for Registration: <http://forms.gle/qpaUURpRJV4nkXS1A>