MANIPAL
ACADEMY OF HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

CARAMS

NWSGT 2026

NATIONAL WORKSHOP ON

SPECTRAL THEORY AND SPECTRAL GRAPH THEORY

02–05 DECEMBER 2026



Prof. Rajesh Kannan
IIT Hyderabad, India



Dr. Argha Ghosh
MIT, MAHE, Manipal, India



Dr. Vinay Madhusudan
MIT, MAHE, Manipal, India

Invited lecture: ***"Spectral Extremal Problems"*** by Prof. Rajesh Kannan

ABOUT THE WORKSHOP

The purpose of the workshop is to stimulate research and, in an informal setting, to foster the interaction of researchers in the interface between functional analysis and graph theory. The workshop will provide a forum through which mathematics and may be better informed of the latest developments and recent research in functional analysis and graph theory and may exchange ideas with researchers from different parts of India.

TOPICS COVERED

Operators and Spectra of Operators

- Hilbert spaces
- Operators on Hilbert spaces
- The spectrum of linear operators
- The spectral theory of a compact operator

Graphs, Groups, and Matrices

- Matrix representations of graphs and associated spectra
- Groups acting on graphs
- Graph spectrum via group actions
- Cayley graphs

REGISTRATION FEE

Indian Students/Scholars/Faculty
₹ 1500 + GST

Accompanying Person
₹ 1000 + GST

Online
₹ 750 + GST

No GST for Faculty/Research Scholars/UG/PG Students of MAHE.

Enroll in our portal using the link http://carams.in/registration. Upon receiving the email confirming your selection for the workshop from the organizers, pay the registration fee and share the transaction details to carams@manipal.edu. Sign in 'My Page' for further guidelines for online fee payment, uploading of personal information and any other relevant information.

Accommodation at MIT student hostels will be arranged, on prior request, on a payment basis.

Visit us at: https://carams.in/events/nwsgt2026/ | Website homepage: https://carams.in/

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Dr. Varun Kumar S G
Coordinator, CARAMS,
PSPH, MAHE, Manipal

Dr. Harikrishnan P K
Co-Coordinator, CARAMS
SBHM, MAHE, Manipal

Organizing Secretary:
Dr. Umashankara Kelathaya
SBHM, MIT, MAHE,
Manipal

Co-organizing Secretary:
Dr. Vinay Madhusudanan
SBHM, MIT, MAHE, Manipal

Dr. Argha Ghosh
SBHM, MIT, MAHE,
Manipal

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Dr. Kuncham Syam Prasad
Associate Dean, SBHM,
MIT, MAHE, Manipal

Centre for Advanced Research in Applied Mathematics and Statistics (CARAMS)
Level V, Health Sciences Library Building, Manipal Academy of Higher Education, Manipal 576 104, Karnataka, India

IN ASSOCIATION WITH
Department of Applied Statistics & Data Science, PSPH, MAHE.
School of Basic Science, Humanities, & Management, MIT, MAHE.

carams@manipal.edu | carams.mahe@gmail.com | Phone: +91 820 2922407