

## Eligibility & Registration

The Participants can be Students, faculty and PhD scholars from AICTE approved Technical Institutions and arts colleges. On completion of the program, participants will be awarded a certificate of participation.

## Registration Fee

Student : Rs.150/-  
Faculty : Rs.250/-

## Mode of Conduction OFFLINE MODE

The sessions of Seminar will be conducted at S&H Seminar Hall, Erode Sengunthar Engineering College

## Mode of Conduction

<https://forms.gle/hKP2ryKFLri1m6jw6>



Learning



## ORGANIZING COMMITTEE

CHIEF PATRON	Thiru. G. Kamalamurugan, Correspondent, ESEC
PATRON	Thiru. S. N. Thangaraju Secretary, ESET
PRINCIPAL	Dr. V. Venkatachalam, Principal, ESEC
CHAIRPERSON	Dr. P. Ramesh, Dean/First Year
CONVENER	Mr. A. P. Saravanan, AP/Maths

## SPEAKERS :

Dr. S. PALANIVEL RAJAN, Professor, Dept. of ECE,  
VELAMMAL COLLEGE OF ENGG. AND TECH., MADURAI  
Dr. R. SENTHAMARAI, Asso. Prof., Dept. of Maths  
SRM INSTITUTE OF SCIENCE AND TECH., CHENNAI  
Dr. KARTHICK S. A., Asst. Prof., Dept. of Maths,  
SRM INSTITUTE OF SCIENCE AND TECH., CHENNAI  
Dr. M. KARTHIGHA, Asst. Prof., (SELECTION GRADE)  
DEPT OF CSE, PSG INSTITUTE OF TECH. AND APPLIED RESEARCH, COIMBATORE  
Dr. P. G. PALANIMANI, PROF. & HEAD / MATHS, ESEC, ERODE  
Dr. S. BHARATHIDASAN, PROF & HEAD / ECE, ESEC, ERODE

## Contact Details

**Mr. A. P. Saravanan**, AP / Maths  
Department of Science & Humanities  
Erode Sengunthar Engineering College,  
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ANRF Sponsored

Two Days National Seminar on

**FOURIER TRANSFORM - BASED SIGNALS  
AND SYSTEMS APPROACH FOR NETWORK  
TRAFFIC ANALYSIS AND CYBER SECURITY  
MONITORING**

09<sup>th</sup> & 10<sup>th</sup> April 2026

Organized by

**Department of Mathematics**



**ERODE SENGUNTHAR  
ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**Perundurai, Erode - 638 057**

## ABOUT THE ESEC

Erode Sengunthar Engineering College, Approved by AICTE, New Delhi and permanently affiliated to Anna University, Chennai and an Autonomous Institution was established in the year 1996 for the upliftment of urban and rural youth by the philanthropic visionaries of Erode Sengunthar Educational Trust. UGC has conferred the Autonomous status to the Institution for 10 years from 2019 to 2029 based on the successful and effective functioning National Assessment and Accreditation Council (NAAC-UGC) has awarded "A" grade accreditation status. The college offers nineteen UG programmes in Engineering and twelve PG programmes in M E Environmental Engineering, M E Computer Science and Engineering, ME Manufacturing Engineering, M E Power Electronics and Drives, ME Applied Electronics, M E Industrial Safety Engineering, M E Structural Engineering, ME Industrial Safety, ME Remote Sensing & GIS M Tech Computer Science Engineering, M. Tech Chemical Engineering and MBA It has full fledged infrastructure furnished in all aspects and is one of the best institutions in the part of Tamilnadu It is also well connected by the bus routes from Erode 20 km, Coimbatore 80 km and Salem 80 km

## Department of Mathematics

The Department of Maths was established in the year 1996 The department has been working towards fulfilling its mission through a synergistic combination of teaching and research. Our Department strives to mould our student with the State of the art technology to make them excel in their profession To achieve high ethical and professional standards through effective teaching learning processes, To provide infrastructure for Research and Development activities, offer Consultancy services for the industry. The Department of Mathematics is committed to develop quality apart from specialized knowledge and skills, the programmes conducted by the Department aim to develop all round personality by inculcating values of honesty, sincerity, team spirit and work culture

## ABOUT THE SEMINAR

The rapid growth of networking systems and internet-based applications has led to an exponential increase in network traffic, making efficient monitoring and Cyber Security a critical challenge. This seminar presents a Fourier Transform-based signals and systems approach for analyzing network traffic and enhancing Cyber Security monitoring. By modeling network traffic as time-domain signals, the proposed method applies Fourier Transform techniques, particularly the Fast Fourier Transform (FFT), to convert traffic data into the frequency domain for deeper analysis.

## KEY AREAS TO BE COVERED

- Fundamentals of Fourier Transform in Signal Processing
- Frequency-Domain Analysis of Network Traffic
- Feature Extraction Using Fourier Transform
- Integration with Machine Learning Techniques
- Application of Fast Fourier Transform (FFT) in Network Analysis
- Spectral Analysis of Network Traffic



## Important Dates

Last date for Registration :: 07.04.2026

## Location

The college is located at Perundurai on the National Highway (NH-47) about 20 km from Erode and 80 km from Coimbatore. It is well connected by road and Train.

## Note

College Buses will be available at Perundurai Bus stand to reach college on the date of seminar. Timing of Transportation will be mailed to all the participants

