

## About the Institution

Rajagiri School of Engineering and Technology (RSET) (Autonomous) is a premier educational institution offering excellence in engineering education and research. RSET offers undergraduate and postgraduate programmes in engineering, and PhD programmes in both engineering and sciences. 7 of the 9 UG programmes are NBA accredited, and the institution is NAAC accredited.

## About the Department

One among the first departments to be established in RSET, the Department of Basic Sciences & Humanities is an integral part of the institution. It includes the disciplines of Physics, Chemistry, English, Economics, and Physical Education. Student Welfare also falls under the purview of this department.

## Department Vision

The department vision is to evolve into a center of excellence in sciences and humanities that will blend innovative practices in professional teaching with research in frontier areas in a mutually enriching manner, with the holistic development of the students as its prime focus.

## Department Mission

The department mission is to provide the students with an excellent background in the fundamentals of sciences and humanities, to facilitate a comprehensive development of their technical and professional competencies, to foster scientific temper and a culture of lifelong learning, to produce high quality research, and to render socially relevant extension services.

## Patrons

Rev. Fr. Benny Nalkara, CMI - Manager, RSET  
Rev. Dr. Jose Kuriedath, CMI - Director, RSET  
Prof. (Dr.) P. S. Sreejith - Principal, RSET

## Coordinators

Dr. Rinku Jacob, RSET  
Dr. Ramkumar P B., RSET

## Advisory Committee

Dr. Antony V. Varghese, RSET  
Fr. Dr. Jaison Mulerickal, CMI - Vice Principal, RSET  
Fr. Dr. Joel George Pullolil, CMI,  
Dean (UG) & Assistant Director, RSET  
Fr. Joseph C, CMI, RSET  
Dr. K. Poullose Jacob - Dean Research, RSET  
Fr. Mejo Paul, CMI, RSET  
Dr. Sonia Paul - HOD, DBSH, RSET  
Fr. Thomas Perumpallil, CMI, RSET  
Fr. Dr. -Ing. Varghese Panthaloorkan, CMI, RSET  
Dr. Vinod Kumar P.B., Dean(PG), RSET

## Organizing Committee

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Ms. Anila Sabu, RSET  
Dr. Anju C, RSET  
Dr. Deepa K. Baby, RSET  
Dr. Deepthi Jayan K., RSET  
Dr. Diana Joe K, RSET  
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Mr. Sujith S., RSET



# DST- SERB SPONSORED TWO DAY WORKSHOP ON NONLINEAR TIME SERIES ANALYSIS AND ITS APPLICATIONS

20th - 21st JANUARY, 2023



Organized by

Department of Basic Sciences &  
Humanities

Rajagiri School of Engineering and  
Technology (Autonomous),  
Rajagiri Valley, Kakkanad  
Kochi - 682 039, Kerala, India

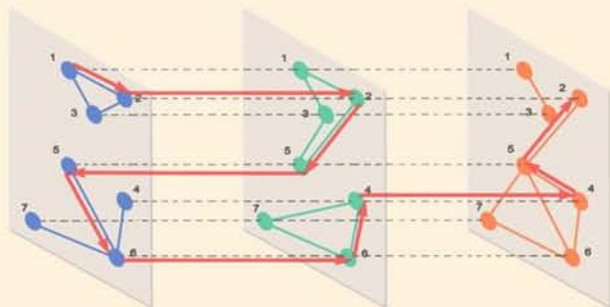
Approved by AICTE and Affiliated to  
A. P. J Abdul Kalam Technological  
University

## About the workshop

The workshop will discuss current research trends and future research directions in Nonlinear Time Series Analysis. The workshop will present novel nonlinear time series analysis tools and approaches. Further, the workshop will also explore its medical applications based on ECG signals to analyse heart dynamics and classify arrhythmias. The basics of machine learning in nonlinear time series analysis will be covered as well.

## Objectives of the workshop are :

1. Educating the participants on various advanced tools for nonlinear time series analysis.
2. Imparting hands-on experience to the participants on data analysis using nonlinear time series analysis tools.



## Topics of interaction

1. Recent updates in the area of nonlinear time series analysis
2. Complex networks, multiplex networks and multilayer networks
3. Cardiac dynamics from ECG time series and detection of various arrhythmias
4. Machine Learning
5. Rapid fluctuations and Chaos

## Resource Persons :



Prof. G. Ambika,  
Emeritus Professor,  
Indian Institute of Science  
Education and Research (IISER),  
Thiruvananthapuram, Kerala



Dr. Suresh Davis,  
Senior Consultant - Cardiology  
Department of Cardiology,  
Rajagiri Hospital, Aluva



Dr. Ninan Sajeeth Philip  
Visiting Professor,  
IUCAA, Pune



Dr. Vinod Kumar P.B.  
Professor,  
Department of Mathematics,  
Rajagiri School of Engineering &  
Technology (RSET), Kakknad

## Eligibility :

Faculty members and Research scholars from affiliated institutions are eligible to apply for the workshop. Participants will be selected on first come first serve basis. The number of participants is limited to 25.

## How to apply?

Interested candidates should register using the link on or before 15th January 2023.

No Registration fee

The workshop is strictly offline.

## Contact Details

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SCAN ME TO REGISTER

Registration Link :

<https://tinyurl.com/ye5pddz3>