

## Objectives

The course will enable a participant to gain a practical knowledge of modern computational techniques for numerical solution of Linear Algebra problems and Partial Differential Equations using MATLAB as vehicle for computation. The course consist of a unified presentation of computation, analysis of basic algorithms and the numerical techniques

## Topics

- Linear Algebra
- Wavelet Transform
- Machine Learning
- Partial Differential Equations
- Computational Fluid dynamics
- Numerical Methods

## Resource Persons

1. Dr. K. Murugesan (NIT, Trichy)
2. Dr. Sarath Sasi (IIT, Palakkad)
3. Dr. Chandrashekar Lakshminarayanan (IIT, Palakkad)
4. Dr. Lakshmi Sankar K. (IIT, Palakkad)
5. Dr. Niranjana H. (VIT, Vellore)
6. Dr. Palanisamy T. (Amrita University, CBE)
7. Dr. Sukanta Nayak (Amrita University, CBE)
8. Dr. Ram Mohan (FCRI, Kanjikode)
9. Dr. G. Muruganath (ASET, Palakkad)

## Target Participants

Participation is open to faculty members working in institutions affiliated under APJ Abdul Kalam Technological University, who desire to pursue PhD and have the passion to excel in advanced mathematics. Number of Participants is limited to 30 and will be filled based on a first come, first serve basis.

## Faculty Development Programme

on

## Numerical Linear Algebra and Partial Differential Equation

05, 06 & 07 December 2018

Sponsored by

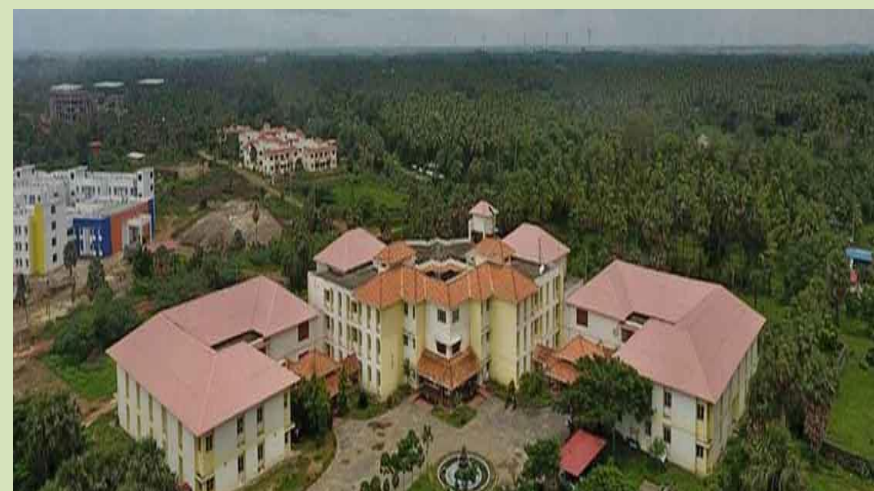
APJ Abdul Kalam Technological University



Organized by

Department of Science and Humanities

Ahalia School of Engineering & Technology



**AHALIA**  **SCHOOL OF ENGINEERING & TECHNOLOGY**

(ISO 9001:2015 Certified Institution)

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

Ahalia Health, Heritage & Knowledge Village, Palakkad - 678557. Ph: 04923-226666, [www.ahalia.ac.in](http://www.ahalia.ac.in)

**Patron**

Dr. V.S. Gopal, Chairman, Ahalia Group

**Advisors**

Dr. P.R. Sreemahadevan Pillai

Principal, ASET & Director, Ahalia Group of Institutions

Dr. Krishna Kumar Kishor

Asst. Director, Ahalia Group of Institutions

**Coordinators**

Dr. Binoy Balan K.

Professor and Head

Department of Science & Humanities.

Prof. Vignesh D

Assistant Professor

Department of Science & Humanities.

**Address for Correspondence**

Coordinator

FDP on Numerical Linear Algebra and Partial Differential Equation

Department of SCIENCE & HUMANITIES

Ahalia School of Engineering and Technology, Palakkad-678557

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**Registration****No Registration Fee**

All registrations require prior submission of duly completed registration form on or before 26 November, 2018. The forms should be signed and sealed by the Principal/Head of the Institution.

Please scan and forward completed forms to [hodsh.aset@ahalia.ac.in](mailto:hodsh.aset@ahalia.ac.in)

**Ahalia Health, Heritage & Knowledge Village**

Ahalia Health, Heritage & Knowledge Village is a project of Ahalia International Foundation located in an exotic region of Palakkad at the foot of Western Ghats amid breath taking valleys, verdant paddy fields and the dense herbal gardens, away from the din and bustle of city life. Ahalia Health, Heritage & Knowledge Village, one of the biggest campuses in the country, offers a perfect blend of nature and technology. The campus is situated 5 kms off the National Highway between Kanjikode and Walayar in Kerala. Coimbatore International Airport is at 1 hour drive (50 kms) and Palakkad (Palghat) Junction railway station is 20 kms away from the campus.

Ahalia Health, Heritage & Knowledge Village is an integrated campus consisting of Ahalia Foundation Eye Hospital, Ahalia Ayurveda Medical College & Hospital, Ahalia Diabetes Hospital, Ahalia Women & Children's Hospital, Ahalia Medicine Manufacturing Unit (Ayurveda), Ahalia Children's Village, Ahalia Heritage Village, Ahalia School of Management, Ahalia School of Optometry, Ahalia School of Engineering & Technology, Ahalia School of Pharmacy, Ahalia School of Paramedical Sciences, Ahalia Public School, IIT Palakkad and more.

**Ahalia School of Engineering & Technology**

Ahalia School of Engineering & Technology (ASET) was established in the year 2012. The college is located in a lush green campus to the beautiful view of the Western Ghats, and it provides a peaceful and congenial atmosphere, ideal for students for their overall holistic development. Ahalia School of Engineering & Technology offers five B.Tech. courses, that is complemented by various co-curricular and extra-curricular activities. ASET, managed by Ahalia International Foundation, is approved by AICTE, New Delhi and affiliated to A.P.J. Abdul Kalam Technological University.

**The Department**

The Department of Science and Humanities imparts basic knowledge in Physics, Chemistry, Mathematics, English and Management which is the cornerstone of the engineering disciplines. The Department offers courses for various branches of Engineering from the first semester to eighth semester. The Department has well-spaced Chemistry and Physics Laboratories equipped with most modern facilities and instruments that add significance to the department.