



# NOISTEKS

## Newsletter of ISTE Kerala Section

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### Chairman's message



#### Greetings from ISTE Kerala Section!

The new academic year has just begun and let me wish all our members a wonderful and fruitful period ahead.

I take this opportunity to congratulate all our faculty and student members for their support and co-operation for the successful conduct of 15th annual students convention at NIT, Calicut.

I would like to share few thoughts as we faced the worst-ever drought with a deficient rain fall during southwest monsoon and the northeast monsoon in 2016. Moreover as the South West monsoon swept across the state, we are left grappling with outbreaks of infectious diseases, especially dengue fever and other mosquito related diseases resulting loss of lives, due to poor cleanliness and improper waste management.

Haritha Keralam, the most important and the one having a direct impact on the livelihood of common man is one of the four specific missions started by the govt. as part of the Nava Kerala Mission, a multidimensional developmental project focusing on water conservation, sanitation, environmental protection, and paddy cultivation. The project envisages making our state clean and green through various initiatives, including waste management, rejuvenating ponds, wells and lakes, besides encouraging organic farming. The Mission focuses on waste disposal at source, modernisation of water sources, creation of new water use culture, reviving existing ponds and streams. The success of the mission depends on the involvement of people, local bodies and the government departments. Members are requested to participate wholeheartedly in the Haritha Keralam project.

As part of the Institutional social responsibility (ISR) initiatives, higher education institutions are urged to have moral obligation to closely work with local bodies and government agencies. Thus identify local issues and offer services for developing a workable solution to these problems. Considering the severe problems faced by the state in ensuring potable drinking water supply and proper waste management procedures, the Faculty and student chapters may organize programmes in collaboration with resident associations and panchayats /municipal corporations on affordable but effective waste disposal methods and creating awareness on the need for conservation of water bodies.

Best wishes K. Vijayakumar

**28<sup>th</sup> Annual State Faculty Convention and  
16<sup>th</sup> Annual Student convention  
Expression of Interest Invited**

### ISTE Annual State Students Convention

The 15th ISTE Annual student Convention of the ISTE, Kerala Section was on 11-12 Feb 2017, at the NIT Calicut named 'Drishti'. The two day event saw participation of around 800 college students from various colleges all over the state of Kerala. The chief guest for the state convention was space scientist and Padma Shri awardee, Dr. Madhavan Chandradathan, who was joined by Mr. M. M. Kuriakose, ISTE Kerala Section Secretary, for the inauguration of Drishti on 11th February 2017.



Mr Kuriakose, Secretary ISTE Kerala Section light lamp. An interactive session was conducted with Dr. Madhavan Chandradathan, sharing his experience with ISRO as a scientist. The young audience raised questions regarding the same, which he answered with enthusiasm. A multitude of events, including Quiz, treasure hunt, Crime Scene Investigation, Junkyard Wars, Street-smart, were organized and winners received attractive cash prizes and certificates. The workshops on Virtual Reality, MSP-430 and Latex attracted large crowds. A cultural evening was organized with performances by the talented Music Club and Thematic Dance Team of NIT Calicut. The Drishti 2017 weekend closed with GEC Thrissur winning most events and taking home the overall trophy. The State Convention proved to be a successful confluence of budding students and provided a platform for young minds to engage in fun events, improve their technical skills and knowledge and broaden their outlook towards science and technology.

Anything that makes you weak physically,  
intellectually and spiritually, reject as poison.

**Swami Vivekananda**

## ISTE CHAPTER ACTIVITIES

### Mar Baselios College of Engineering, Tvm

ISTE sponsored STTP on 'Optimization Techniques for Engineering Applications' was organized by Mechanical Department of MBCET, Nalanchira, Trivandrum, Kerala during 17-21 July 2017. The guest of honour was Dr Saji Gopinath, CEO Kerala Start Up Mission. He gave an introductory lecture on optimisation laying the foundation for the STTP as part of the keynote address at the inaugural ceremony. Dr Muralidharan Nair HOD Mechanical Engineering Dept., MBCET welcomed the gathering and Ms Nidhi. MB, APME & NC ISTE and co-ordinator of STTP spoke on ISTE and about the STTP. Dr Sridharan, Professor, NIT Calicut was the resource person for Overview of optimisation covering the need and application. Fr Raju Parakor, Assistant Bursar of MBCET gave away the memento to Dr Saji Gopinath. Prof K M Raju, Dean Academics felicitated the team and Ms Ruby Maria Syriac, APME & Co-ordinator of the STTP delivered the vote of thanks. There were 27 participants from various engineering colleges from various disciplines.

The resource persons include Prof Joseph Cherian, HoD Mathematics, (Formulation of optimisation problems), Dr Sunil kumar, (Associate Prof, CET) introduced Nature Inspired Algorithms. Introduction to Matlab sessions were handled by Prof Athira and Prof Riya of MBCET EC Dept. Dr Bipin Balaram, Associate Professor from Amrita Vidya peedam, Coimbatore took sessions on GA and hands-on session with MATLAB. Prof Indulal s of CET handled session on ANN and Fuzzy logic. Dr Shyas from CUSAT spoke on industrial applications of GA and Er Remesh introduced PSO (Particle Swarm Optimisation). Ant Colony Optimisation (ACO) was handled by Ms Nidhi MB, APME, MBCET. She also introduced Krill Herd Optimisation to the participants.



Participants of STTP with Resource Persons

No legacy is so rich as honesty.

William Shakespeare

### SSM Polytech Chapter , Tirur

SSM Polytechnic College, organised a session on 'FROM LEARNING TO LEADING-A NEW PERSPECTIVE' on 30-3-2017 to improve management qualities of the faculty members and students. The Welcome speech was delivered by Firoze Mohammed (secretary, ISTE SSM chapter), Presidential address by Abdul nazer kaipanchery (Principal, Chairman, ISTE SSM Chapter), Inauguration by Mr Subair. P (National executive council member, ISTE), Presentation by FAHID.K.V (Lecturer in English) and Vote of Thanks by BIPIN.C.N (co ordinator, ISTE students chapter). There were more than 50 participants.



Mr Subair P delivering Inaugural address



Resource Persons

### Saintgits College of Engineering and Technology, Kottayam

An expert talk on Talk on "Value Based Education" was organised by CSE department in association with ISTE Chapter The Programme was Coordinator Er Selvam E, Assistant Professor CSE of Saingits.

As we express our gratitude, we must never forget that the highest appreciation is not to utter words, but to live by them. John F. Kennedy





Faculty interaction with Mr Ajay Jose



HOD CSE introduced Students to the Session by Mr Ajay Jose

The prime concern of this programme was to empower and creating awareness among the students on education value system. Mr. Ajay Jose, Soft Skill Trainer – Peterson's Consultant-LLP was the chief guest and the keynote speaker. Faculty members from ECE, MCA were also participated in the programme. The programme was started at 9.30 am and end by 12.30pm at RB Seminar Hall of Department of Computer Science and Engineering.



Session in Progress

Department of Computer Science and Engineering has organized an Expert Talk on “Introduction to Soft

The best preparation for tomorrow is doing your best today.  
H. Jackson Brown, Jr.

Computing with emphasis on Fuzzy Logic” in association with ISTE SAINTGITS Chapter on 04.03.2017. Dr. M. Wilsy , Dean CS & IT from SAINTGITS College of Engineering was the speaker of the programme. The prime concern of this programme was to empower the knowledge of Soft Computing techniques like Fuzzy Logic. The programme was started at 9.30 am and end by 12.30pm at RB Seminar Hall of Department of Computer Science and Engineering. Participants from various departments attended.

### Trinity College of Engineering

ISTE Trinity chapter conducts regular talks by faculty of different departments to get updated with modern technology trends. ISTE talk on “Paper Battery” by Mr Robin Roy, Assistant Professor of EEE Department.



ISTE talk on “Thermal Energy Storage using Phase Changing Materials” by Mr Rahul, Assistant Professor of ME Department

### ISTE Govt. Engineering College Thrissur Chapter

ISTE GEC Thrissur Chapter, planted saplings in the campus on the World Environment Day 2017. Dr. C. P. Sunil Kumar, Chairman GEC Chapter & ISTE National Executive Council Member inaugurated the environment day activities by planting sapling in front of Chemical Engg. block and gave the message to the students and faculty assembled. Secretary Dr. Subin

Let the beauty of what you love be what you do.  
Rumi

Poulouse, and Dr. P. A. Solomon delivered speeches. It was followed by a Seminar titled “Water – the elixir of life.”



## ISTE Student Chapter Activities

### Mar Baselios College of Engineering and Technology (MBCET)

ISTE MBCET chapter celebrated Environment day by planting sapling in the campus. The environment day message was delivered by Bursar Fr Wilson Thattarathundil to the faculty and students. He emphasised the importance of every tree in ones life.



Sapling planting by faculty & students



**ENVIRONMENT DAY**

**observation by**

**ISTE MBCET Chapter 2017**

Sustainable initiative by ISTE MBCET- Notepad making with the aim to reuse the unused papers in used assignment books. The event witnessed many students from various departments arriving to help

Three things cannot be long hidden: the sun, the moon, and the truth.  
Buddha

in the making. The event was conducted from 3rd July to 7th July. 150 notepads were made and 30 were used for STTP on Optimisation conducted on 17th to 21st July at MBCET campus.



Students involved in Notepad making

An interacting session on “Basics of Research and technical writing” was conducted by ISTE MBCET chapter on 17th July 2017. Dr. R. Sreedharan, Professor MED, NIT Calicut, was the resource person. The participants include both students and faculty from various branches. The talk started by 2pm and was concluded by 4:30pm.



Prof Sreedharan, NITC addressing the Students and Faculty

Mrs. Divya NA (APEE), Chairman, & Ms Asha (APCS) Secretary ISTE MBCET CHAPTER and ISTE students Advisor Ms Nidhi MB,(APME and NC ISTE) along with ISTE student coordinators Mr Rejoy, S5 ME, co-ordinated the session. Dr MJ Jayasree, ECE HOD gave memento to the guest.

### GEC - ISTE Chapter Thrissur.

ISTE Students Chapter of Govt. Engineering College Thrissur organized 2-day long Project Expo YUKTHI-2017 during 17-18 August 2017. The educational expo was beneficial to the school and college students who aspire creativity, research & innovation, from various institutions nearby.

Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.

Pele





lighting of lamp, (from L to R): Dr. C. P. Sunil Kumar, Dr. Vinay Goyal, Er. Saju Antony, Er. Prasad Mathew.



Participants interacting during the Project Expo

The expo was inaugurated by Dr. Vinay Goyal IAS, Asst. Collector, Thrissur. Dr. B. Jayanand, Principal presided over the function. Er. Prasad Mathew (Dy. Chief Engineer, Electrical Circle, KSEB, Thrissur), Er. V. K. Arunan (Joint Director, Factories & Boilers Dept., Govt. of Kerala), Er. Saju Antony Pathadan (Lions District Chairman), Dr. C. P. Sunil Kumar (UG Dean) and C. P. Gopikrishnan (Chairman, College Union) delivered speeches. Lakshad K. Suresh, convenor welcomed the gathering and Razal Abdulla T. K., treasurer proposed vote of thanks. Various competitions like design contest, Techno vision, Treasure hunt, Paper presentation contest etc were among the highlights in the expo.

### Trinity College of Engineering

As a part of National Technology Day celebration which commemorates the history of India's technological innovations and excellence, ISTE faculty Chapter of Trinity College of Engineering organised a "Wire Looping completion" for students to initiate curiosity and enthusiasm in solving electrical problems. Students were given a task to design an electrical circuit to satisfy the given condition in a specified time. Team of Jimmy Johnson, Chindu M M, Akshara N S, Anto Mathew and Varajith V S of S6 EEE solved the problem in minimum time and came first in the competition.

Put your heart, mind, and soul into even your smallest acts. This is the secret of success. Swami Sivananda

The winners were awarded during the inaugural function of TECHBUZZ 2017.



Winners of wire-loop contest



ISTE talks are an initiative among students, where they present topics of interest which have recent advances. Ms Vyshnavi of S4 EEE gave a presentation on the topic "Witricity" and Mr Sooraj A S of S1 EEE on "Solar Cell Technology".

### National Executive Council Meeting at Aurangabad 5<sup>th</sup> August 2017



### From the Editors Desk

This **second issue** of the newsletter of the year 2017, covers news mainly on ISTE student Convention & chapter activities from various institution across the state. **WISHING**

**YOU ALL HAPPY & Prosperous ONAM !**

Any further information regarding the chapter activities, Quotes, Suggestions/Corrections for Newsletter inclusions or matters to be published in newsletter may kindly be communicated over email: [editor@istekerala.in](mailto:editor@istekerala.in) or [nidhi.iste@gmail.com](mailto:nidhi.iste@gmail.com).

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