



# NOISTEKS

## Newsletter of ISTE Kerala Section

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### Chairman's message



Greetings from ISTE Kerala Section !

Let me wish my fellow members a wonderful and fruitful academic year ahead.

I take this opportunity to reflect upon few thoughts in view of the flagship programme Pradhan Mantri Kaushal Vikas Yojana (PMKVY) an outcome-based skill training scheme of Govt. of India. Currently, only a very small proportion of our workforce has any formal skill training. Not surprisingly therefore several sectors of the country's economy face shortage of skilled people and are mired with low productivity levels due to poor quality of workforce. At the same time, large sections of the country's youth are looking for economic and livelihood opportunities. In this context, skill development has become a key priority area for the country. This is not only essential for economic development, but would help in fulfilling youth aspirations for good quality training, better paid jobs and self-employment opportunities. This would also enable the country to take advantage of its conducive demographic profile. With a large pool of skilled people, India has an opportunity to become a skill provider for the world, particularly the ageing developed world. The skill certification and reward scheme under PMKVY aims to enable and mobilize a large number of Indian youth to take up skill training and become employable and earn their livelihood.

In this context the technical education system has a responsibility to see and understand how engineering students are equipped with necessary skills to enter the "real world." The curriculum has to be re-oriented to provide necessary skill training especially at certificate and diploma level utilising /augmenting the facilities of the institutions. ISTE is a common platform

to discuss and evolve progressive ideas for providing high quality skill training to students and unemployed youth across a range of sectors which will boost the productivity of the country's workforce. It will also bring about a paradigm shift from input-based to outcome-based skill training in the country.

Along with routine ISTE activities, a major task at our hand is the updation of the membership directory. The chapter chairmen and secretaries are once again reminded to make earnest efforts for updating the mailing address of all its members. I am also using this opportunity to remind each one of you to contribute liberally to the building fund. Let us work together to make the ISTE staff training college a reality.

Best wishes

K. Vijayakumar

### *From the Editor's Desk*

This **Second issue** of the newsletter of the year 2016, covers news mainly on ISTE chapter activities from various institution across the state.

***We look forward for the active reporting from the chapters on the various activities.***

***This issue also has a notice inviting the institutions to send application for the conduct of ISTE Annual Student convention for the year 2016.***

On behalf of ISTE Kerala section, I request you to share the email ids of members of your chapter to widen the reach of ISTE newsletters and update the Kerala section database.

We hope to include **responses** and announcements in next newsletters in order to give preference to include chapter activities from various chapters in present issue of Newsletter.

Thank you for the bearing with us!

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).

### 15<sup>th</sup> Annual Student Convention

**ISTE kerala section invites entries from interested institutions to conduct the annual student convention. Entries to reach ISTE kerala section on or before 15<sup>th</sup> July 2016 by email or hardcopy letters.**

## ISTE New Chapter

ISTE Kerala Section chairman, Dr. K Vijayakumar, D T E, Govt. of Kerala inaugurated the M-DIT ISTE chapter on 8th of March 2016.



M-DIT ISTE Faculty Chapter Inaugurated : Dr. K. Vijayakumar ( D T E, Kerala and Chairman, ISTE Kerala Section ) lighting the lamp. Watching alongside L to R are Prof. Govindan, Prof. Jayaraj, Dr. P T R Nambiar, Prof, M R M Nambiar, Sri .M Mehaboob, Chairman M-DIT, Shri. Kuriakose Secretary ISTE Kerala Section, Shri. H. Ahinus, Director M-DIT



MDIT ISTE Faculty Chapter Inaugurated - Dr P T R Nambiar, Principal ( speaking ) sitting ( L to R ) Prof. Jayarajan, Prof. ( Dr. ) M R M Nambiar, Dr. K. Vijayakumar, D T E, Shri. Kuriakose, Secretary, ISTE Kerala Section, Prof. Harshan .

## Trinity College of Engineering

The Indian Society for technical Education (ISTE) Students Chapter of Trinity College of Engineering was inaugurated on 27/02/2016. Ms. Archana, fourth semester student welcomed and introduced the guests to the gathering.

Dr. Arun Surendran, Strategic Director of the college delivered the presidential address and explained plans for the forthcoming year. He also mentioned different achievements of our students and college.

“To become a master at any skill, it takes the total effort of your: heart, mind, and soul working together in tandem.”

— Maurice Young



From Left Ms Metilda, Principal Trinity college of Engg, Ms Nidhi M B, National Executive Council member ISTE & A/HoD Mechanical Engg Dept. MBCET, Dr Arun Surendran, Strategic Director, Trinity College of Engg.



Audience including Guest from IIST

The Chief guest was Mrs. Nidhi M B, ISTE National Executive Council Member and Assistant HOD of ME Dept, MBCET, delivered the inaugural address and explained the importance of ISTE and its impact on technical education. She gave an idea of different activities that can be planned under students chapter. Miss. Kavya, fourth semester student proposed the vote of thanks.

### Tips for Effective Teaching

- Positive and creative Learning Climate
- Review lecture objective(s)
- Use a case study or problem-solving activity
- Make a provocative statement to encourage discussion
- Use a videotape or other media
- Engage the learners
- Relate the topic to a real-life experience
- Be a facilitator and know the interest of learner
- Lifelong learning

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

ISTE chapter of MBCET organized two-day workshop on 'Creativity & Innovation for first year B.tech students during 19-20 March 2016 at Faraday hall. The workshop was inaugurated at 9am at Faraday hall with a silent prayer by Principal Dr T M George. He congratulated ISTE Chapter for organising the workshop on creativity and urged participants to make best use of the events. Ms. Nidhi Assistant HOD, Mechanical Department and ISTE MBCET Chairman welcomed Dr T.M George, principal of MBCET, Mr. Reney Varghese, Ms. Dr Shobha, mentors of the events, participants and the organizing team. Inauguration session was then followed by the ice breaker and discussions on 'self-awareness for Creativity & Innovation' by Mr. Reney Varghese. Sessions on brain storming and lateral thinking were handled as hands on session by Mr Reney and Ms Nidhi. Day two sessions started with creativity on paper model making by Dr Shobha. Activities on self-awareness, later thinking, team building.



On 5/3/16 in association with Crossroads 2k16, ISTE organized one of the best technical events, titled 'Robo War'. This event was attended by 9 teams, each comprising of four members with 2 home teams and 7 other, which included SCT, Barton hill etc and also colleges from Tamil Nadu in which our home team emerged as winner's. On 6/3/16, the third day of Crossroads 2k16, ISTE conducted another technical event, titled 'Robo Soccer'. It was one of the spine freezing events in the history of crossroads consisting of 12 teams. The team from Tamil Nadu captured the first prize with the home team at the 3rd position. The winners were awarded with prize money by Ms. Nidhi, APME.

"Educating the mind without educating the heart is no education at all."

— Aristotle

The ISTE chapter of MBCET held the Annual General Body Meeting on 20th March 2016 in the Senatus Hall from 12:30 to 1:30 p.m. Mrs Nidhi M B, A/HOD, ME department of MBCET, and Ms Sheenu PS , A/HoD EE dept of MBCET Distributed the certificates. The new student office bearers are Chairman is Mr Anand (S4 EC), Vice Chairman is Mr. Dean (S4 ME) , General Secretary is Linta (S4 CE) and Technical Coordinator is Akshay S4 EEE Treasurer is Aaron (S4 CS).



Mr Niranjhan, Innovator, interacting with students

On 8-3-16, ISTE MBCET student chapter organized an event called 'Meet the Innovator' for the first year students of MBCET at A-block from 2pm to 5pm. The session was carried out by the national renowned innovator Mr. Niranjhan.V. He was welcomed and introduced by Ms. Nidhi, ISTE national executive member and chairman MBCET ISTE chapter. Mr. Niranjhan showed his keen interest over the need of innovation and how it is going to help in solving the wide variety of problems that our society is facing right now.



Environment day - Sapling planting in Progress

"Health and cheerfulness naturally beget each other."

- Joseph Addison

ISTE MBCET faculty chapter initiated sapling planting as part of environment day celebration on 9th June 2016. Rev Fr Wilson Thattarathundil, Bursar gave the environment day message and encouraged everyone to plant trees. He also added the very philosophy since the inception of MBCET has been based on blending with nature and protecting and planting of saplings. Students and faculty office bearers also planted sapling on this occasion. Co-ordinators were Ms Nidhi MB, EC ISTE and chairman ISTE MBCET chapter, Ms Asha Secretary ISTE MBCET chapter.

### Thejus Engineering College, Vellarakkad

The ISTE Faculty Chapter and Department of Electrical and Electronics Engineering, Thejus Engineering College, jointly organized a three day National Level Workshop on the topic “Power Quality Issues with Grid Connected Wind and Solar Energy Systems” in association with ISTE Kerala Section from 7/10/15 to 9/10/15. The program commenced with a silent prayer, and Dr. K Satheesh Kumar, Principal of Thejus Engineering College welcomed the participants and other dignitaries. He also emphasized the importance of national level workshops and its impact on the academia in advancing the knowledge level of students as well as teachers. The workshop was inaugurated by Shri. M.M Kuriakose, Secretary, ISTE Kerala Section. He motivated the participants for attending these types of programs and appreciated the ISTE Faculty Chapter and Department of Electrical and Electronics Engineering for the initiative taken for conducting this program. Prof. K. Premandan, Head of Electrical and Electronics Engineering delivered felicitation.

The sessions were handled by eminent personalities of south India. The participants include 16 teaching faculties and 34 students from various engineering colleges. The importance of renewable energy sources in the present scenario and the power quality issues in grid connected systems were the main topics of discussion. Dr.A.Vijayakumari (Professor) and Mr. S.R.Mohanrajan (Asst. Professor) of Amrita Viswa vidyapeedam, Coimbatore, demonstrated the simulation of grid connected solar system using MATLAB-2015 and a hardware prototype of the renewable energy converter. Er. S.R. Anand, Executive Engineer, Load Dispatch Centre, Kalamassery talked about different techniques adopted in Load Dispatch Centre for mitigating power quality issues. Mr. T A Kuriakose, Executive Engineer, KSEB Transmission, Shornur discussed about the topic “Renewable Energy Option”, Mr. Janesh N Mohanan. Senior Project Manager KITCO Ltd, lectured on the topic “Grid

Connected Solar power plant from KW to MW range” and Mr. Binu K Baby, Asst. Professor, Thejus Engineering College spoke about the design of converters for renewable energy sources. Participants were able to learn the power quality issues related to power systems in which renewable energy sources are connected. The workshop concluded with the vote of thanks by Mr. Jaison Joy, Secretary, ISTE Faculty Chapter.



**Dr.A.Vijayakumari** interacting with the participants during the lecture

The ISTE Faculty Chapter of Thejus Engineering College organized a Faculty Seminar on 10-12-2015. The function started with a silent prayer followed by the welcome speech delivered by Mr.Jaison Joy, Secretary, ISTE Faculty Chapter KE-071. Dr. K.Satheesh Kumar, Principal, Thejus Engineering College gave the Presidential Address. H.O.Ds and faculty from various departments attended the seminar. Mrs. Anjana T R made her presentation on “An Introduction to Ground Improvement Techniques”. She is a faculty of Civil Engineering Department, Thejus Engineering College with M.Tech from NIT, Calicut in “Environmental Geotechnology”. Mr. Vivek E.M , Assistant Professor, Department of Civil Engineering, Thejus Engineering College proposed vote of thanks.

Faculty Seminar was organised on 27-11-2015, on the topic “how to measure economic growth and development of a country”. Dr. Johnson Thomas is a faculty of Applied Science and Humanities Department of Thejus Engineering College was the resource person. In his presentation he emphasized the difference between Gross Domestic Product(GDP), Per Capita Income(PCI), Physical Quality of Life Index(PQLI) Economic Growth and Development, Human Development Index(HDI),Human Poverty Index(HPI) 1&2,Gender Development Index(GDI),Gender Empowerment Measure(GEM) etc.

“Genius is one percent inspiration, ninety-nine percent perspiration.” — Thomas A. Edison

## Saintgits College of Engineering (SCE)

ISTE- Saingits chapter organised a Technical Talk on 20.02.2016 (Saturday) at Ramanujan block Seminar Hall for S4 and S6 Students. The resource person was Mr. Ganesh D. Iyer, Manager (Marketing & Development), IBS Cochin DC. He spoke on "IBS recruitment policies and Current Market Trends". The session started with Silent prayer, Mr. Ganesh D Iyer was introduced by Mrs. Sonia (Placement Cell Member) to audience.



Department of Computer Science and Engineering & ISTE chapter, organized an Alumni Talk / Interaction on 20.02.2016 (Saturday) at RB 302. Ms. Elizabeth Shaji Philip (Alumni CSE, Batch: 2011-2015) was the resource person. She spoke on "Career Guidance & Orientation". The Students from Semester VI were the audience.



Rev. Dr. Jose Kannampuzha( Principal, Amal Jyothi College of Engineering) and Prof. Richu Thomas

"What a teacher is, is more important than what he teaches"  
- Karl Menninger

"Education is improving the lives of others and for leaving your community and world better than you found it".

-Marian Wright Edelman



Inauguration

Three Day Workshop on Multiphase Flow Theory & Applications during 16-18 December 2015. Dr Sarith P Sathian, IITM, Dr S Jayaraj NITC, Dr Ranjith kumar, Dr Anand Raj Hariharan and Dr M Suresh were the External resource persons. Out of 30 Participants 16 were from other colleges.

## Jyothi Engineering College, Thrissur

ISTE Students Chapter of JECC in association with AEEE has organized a two day workshop on "INDUSTRIAL INTERNET OF THINGS" during 4th and 5th February 2016. The resource persons were Mr Akhil R & Mr. Anandu Manoharan from ECIANS Ltd. The main objective of the workshop was to familiarize one of the software tool named "Internet Of Things (IOT)". The sessions were hands on and the students were able to understand the basic concepts of the programming. There were 50 participants for the workshop.



Inaugural address



dignitaries on Diaz

World Water day was celebrated at Jyothi Engineering College on 22/03/2016. The programme was organized by the ISTE and IE(I) (Mechanical and Civil Engineering) chapters of JECC. Around 100 students participated from ISTE and IE(I) in the programme. The programme was conducted in Decennial Hall at 2.30pm. Ms. Anitha Anil student representative of the ISTE welcomed the gathering. Fr. Joju Chiriyankandath, Finance Manager of JECC gave the presidential address. Dr. Latha Anantha, Director of River Research Center gave an idea to the students about prevalent water scarcity and the opportunities for the engineers in the field of water. Ms. Ambili P. IE(I) student representative proposed vote of thanks.



Session in progress

ISTE Students Chapter in association with Mechanical department organized a One day workshop on “Python Programming for Mechatronic Applications & Mechanical Signal Processing” conducted on 12th February 2016. The resource person was Dr. Lalu P.P, Asst. Professor, GEC TCR. The main objective of the workshop was to familiarize the software tool “Python Programming”. The hands on sessions helped students to understand the basic concepts of the programming. The workshop received good response from the participants. The total no. of participants was restricted to 56 which included 41 students from Mechanical (S4 & S6 Combined) and 5 students each from EEE, ECE, CS.

“Attitude is a little thing that makes a big difference.” — Winston Churchill

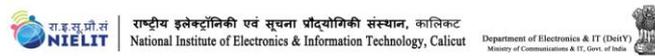
Confidence comes from hours and days and weeks and years of constant work and dedication.

- Roger Staubach

“The speed of your success is limited only by your dedication and what you're willing to sacrifice” — Nathan W. Morris

## Preparatory Practices for Accreditation with Outcome Based Education

NIELIT Calicut in association with ISTE kerala section and IEEE Malabar Subsection, organised one day National Level Faculty Development Workshop on Preparatory Practices for Accreditation with Outcome Based Education during 28th May 2016.



Workshop

‘Preparatory Practices for Accreditation with Outcome Based Education’

(28 May 2016)



jointly organized with



The program covered topics like Outcome Based Education through Active Learning, Latest NBA Accreditation Criteria, Process involved in Pre and Post Accreditation Phases, Hands on Preparation of Self-Assessment Report in an automated environment etc. There were 51 participants from various institutions. Dr. S. Bhaskar Professor, Thiagarajar College of Engineering, Madurai (Former Engineering Evaluation & Moderation Committee Member, NBA), Mr Gandhi Karuna (CTO, Watsinit Mobile Technologies ) and Mr Nataraj Pinakapani (CEO, Watsinit Mobile Technologies ) were among the resource persons.

**27<sup>th</sup> Annual State Convention**  
**M-DIT, Kozhikode, October**

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