



NOISTEKS

Newsletter of ISTE Kerala Section

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From Chairman's Desk



Greetings from ISTE Kerala Section!

I am using this opportunity to congratulate the management, staff and students of Mar Baselios College of Engineering and Technology, Thiruvananthapuram and Govt. Engineering College, Kozhikkode for the successful conduct of the Annual Faculty Convention and Student Convention of Kerala Section 2020-2021.

Like the previous year, Covid 19 pandemic is going to affect the regular academic sessions this year also. One of the most oft-used terms after the pandemic is the term "new normal." The new normal in education is the increased use of online learning tools. Online learning is now applicable not just to academics, but it also extends to extra-curricular activities for students as well.

Major casualty of the present system of learning is the difficulty in conducting practical/workshop sessions, without these, the knowledge students gain remains merely theoretical in nature, making it difficult for them to apply it in real life at a later stage. One option is to have virtual labs which provides facility for modelling of physical environment and carrying out simulations to yield result of experiments, providing an approximate version of the real-life experiment. Unfortunately, our institutes are ill-equipped, and students are not getting enough opportunities to get exposed to the equipment/instruments, even in virtual mode. Another casualty is the minimal physical interactions between students and teachers in an online class resulting in a sense of isolation for the students. Students learn a lot from being in the company of their peers.

ISTE chapters are advised to take initiatives for organising programmes/interactive sessions utilising the virtual resources available under the NMEICT (National Mission on Education through Information and Communication Technology) platform, facilitating communication between the students, peers, and teachers to overcome the limitations of online education. Virtual Labs can be made more effective and realistic by providing additional inputs like accompanying audio and video streaming of an actual lab experiment and equipment.

Stay safe, stay healthy.

Best wishes.

Dr. K. Vijayakumar

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Musings of Chief Editor

This is the second issue of NOISTEKS this year. In recent times the frequency and regularity of publishing the newsletter has come down and the SMC have taken a bold decision to reorganise the editorial committee with representation from all regions. It is the duty of editors to collect and consolidate the news items from different chapters. I am sure that this arrangement will definitely help in the regular publication of the newsletter. It is observed that the news items submitted by the chapters are in different formats (in some cases in .pdf) which makes the task of the editor two fold. The entire matter has to be unnecessarily retyped. It has been decided to use Google forms to collect the items from the chapters. The link to the form is

<https://forms.gle/bS3QspvmPpn6RiSR6>

Office bearers of chapters are requested to co-operate and use this facility on a regular basis. Photographs of the event shall be forwarded by Email to editorialteam.iste@gmail.com.

In this special issue, the Annual conventions are covered. Due to paucity of time and space, the news items from chapters are not included. If possible a supplement will be brought out immediately. Thank you for your understanding.

Dr. Anil B.

31st Annual ISTE State Faculty Convention



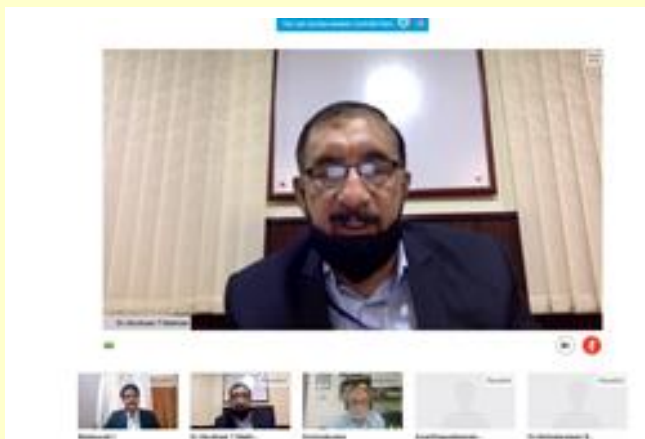
Shri, Arif Mohammed Khan lighting the lamp



National Anthem



Dr. Nidhi M. B. receiving the best Faculty advisor award



Dr. Abraham T Mathew moderating panel discussion

The 31st Annual Faculty Convention of ISTE Kerala Section was inaugurated by Shri. Arif Mohammad Khan, Hon'ble Governor of Kerala on 23rd January 2021 at Mar Baselios College of Engineering and Technology, Trivandrum. The theme of the convention was *"Challenges and opportunities in Technical Education in the post COVID Scenario"*. The inaugural function was presided by Dr. K. Vijayakumar, Chairman, ISTE Kerala Section. Dr. Abraham T. Mathew, Principal, MBCET welcomed the gathering. Dr. Nidhi M. B., Convenor of the ISTE Convention and ISTE National Executive Council Member, briefed about the convention.

In his inaugural speech, Shri. Arif Mohammed Khan spoke on the importance of National Education Policy and programmes such as ISTE convention to update and up-skill faculty and thereby impart employability skills to the students. He emphasised in spreading the message of greenery at MBCET to other institutions across Kerala and at National level. Various awards of ISTE Kerala Section were also distributed. His Beatitude Moran Mor Baselios Cardinal Cleemis Catholicos, Major Archbishop of the Malankara Syrian Catholic Church and Patron of Mar Baselios College of Engineering and Technology gave the Benedictory address.

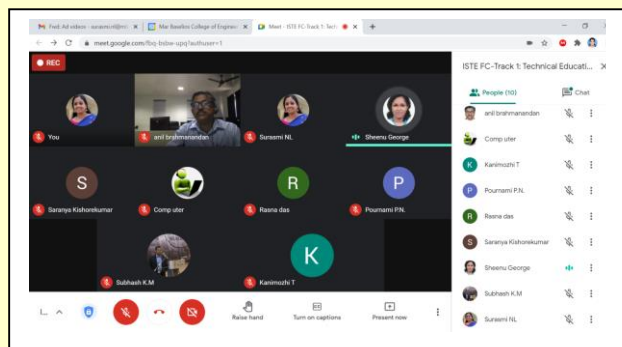
Bursar Fr. John Vilayil, presented mementos to honour the guests, Prof. S. Viswanath Rao, Vice-Principal, offered felicitations and Dr. Deepak G. Dileep, Organizing Secretary expressed vote of thanks.

The convention started with the keynote address by national president Dr. Pratap Singh Desai. Due to prevailing pandemic, the address was delivered online. This was followed by an industry panel discussion in the theme "Strengthening Academia through Industry Institute Interaction" (in online platform). The moderator of the session was Dr. Abraham T. Mathew, Principal, MBCET. The following experts participated. Dr. Venkataraman Balaji, President, TVS Sensing Solutions Pvt Ltd and Director, Fiber Optic Sensing Solutions, Mr G. Anantha Padmanabhan, Practice leader, IBM Analytics Solutions, Mr Balamurali L., Director - Quality, SFO Technologies Pvt Ltd, NeST Group, Mr. Rahul P. S., Regional Trechnical Head/Associate, RWDI Consulting Engineers India Pvt. Ltd and Mr. G. Krishnakumar, former General Secretary, SEEM.

An alumni interactive session was also conducted as a part of the Convention. The topic of discussion was 'The role of alumni in strengthening the institution'. The moderator of the session was Dr. Arun Surendran, Strategic Director & Principal, Trinity College of Engineering, Trivandrum. 6 alumni from various institutions expressed their views. Ms. C. Sojy Rajan, APEEE, MBCET and Mr. Jomy Joseph, APCE, MBCET were the co-ordinators of the event.

Technical paper presentation : National Seminar

A National technical paper presentation was conducted as part of State Convention. 36 papers were received from various colleges. These were checked thoroughly for plagiarism and reviewed by experts. The papers were categorized and presented in six parallel tracks in Google meet platform.



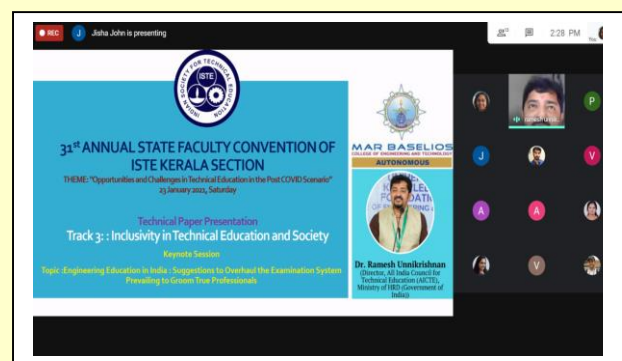
Track 1: Technical Education in Pandemic ERA

Keynote address : Dr. B. Anil, former Chairman, ISTE Kerala Section
in the topic “The Future Trends in Education”.

6 papers were presented. Best paper : “ Web-based Online Teaching-Learning in the era of COVID-19: A Pilot Case Study of NIT Calicut” by Ms. Pournami P N, Mr. Raghu C V, Mr. Subhash K M., NIT Calicut.

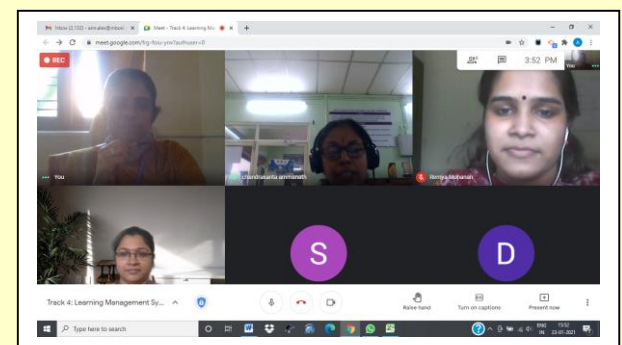
Track 2 : Technical Education in the post-Covid Scenario

Six papers were presented in his track. The best paper award to “Covid Resetting the Work Life Routine”, by Dr.Elizabeth Rita Samuel, Rajagiri school of Engineering and Technology, Kochi.



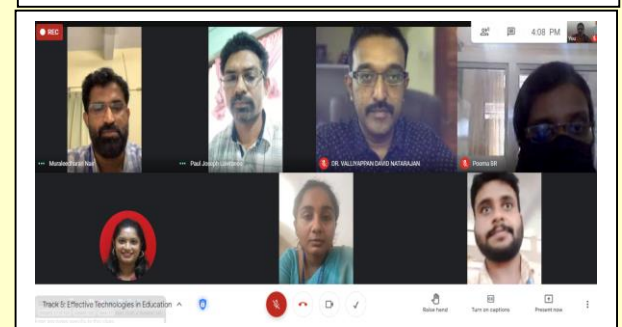
Track 3: Inclusivity in Technical Education and Society

Dr. Ramesh Unnikrishnan, Director, AICTE New Delhi delivered the keynote address on “Engineering Education in India : Suggestions to Overhaul the Examination System Prevailing to Groom True Professionals”. The best paper award was bagged by “Using Computer Vision to Detect Violation of Social Distancing” by Ms. Poorna B. R., Anzar N.S., Muhammed Ismail, Najeeb T. and Aditya A., MBCET, Trivandrum.



Track 4: Learning Management Systems in Technical Education

Keynote address was delivered by Mrs. A. S. Chandrakanta, Principal, Govt. Womens' Polytechnic College, Thrissur in the topic "Academic Monitoring during online education in Polytechnic colleges during the Covid pandemic". Six papers were presented. Best paper : "A Study on the Challenges of E-Learning" by Nima Ravi, Pavin Shaji Mathew, Arunlal P. L., Joseph Mathew and Jish Gopi.



Track 5: Effective Technologies in Education

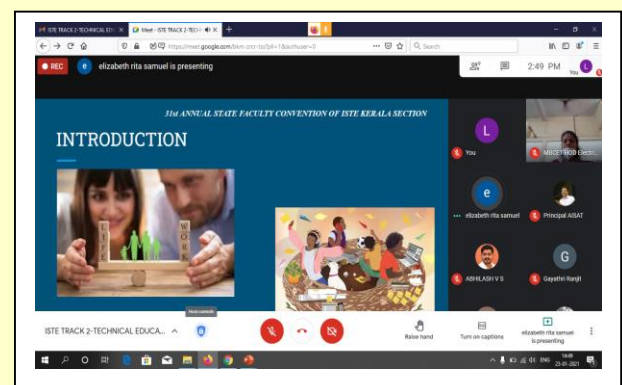
Key note address was delivered by Dr. David N. V., and Dr. Prasanna Ramakrishnan, Universiti Teknologi, MARA Shah Alam, Selangor, Malaysia on the topic “A Modified Flipped Classroom Approach to Designing Teaching Instructions for Open and Distance Learning”.

Best paper : “Augmented Reality Integrated Smart Math Solver”,
by Ms. Poorna B. R., Abraham Tony Itty, Gokul Krishna J.K., Gokul
Krishna B. and Jayaram R., MBCET, Trivandrum.

Track 6: Teaching Learning Innovations

Dr. Elizabeth C. Kuruvilla, Professor, MBCET presented the keynote address on “New Dimensions in Technical Education in the light of National Education Policy 2020”.

Best paper : “COVID-19 and Digital Transformation in Academia: A Case Study” by Ms. Hridya C. K. , Sheenu P, Soumya A. V., Surasmi N. L. and Jeneena Babu



31st Annual General Body Meeting of the Kerala Section



The 31st Annual General Body meeting was held at Mar Baselios College of Engineering and Technology, Trivandrum at 12 noon on 23rd January 2021. Dr. K. Vijayakumar, Chairman, Kerala Section presided. Chairman welcomed the gathering and briefed on the activities of the section. Er. Ramakrishnan, Secretary-cum-treasurer presented the annual report and the audited statement of accounts. After discussion, the report and the accounts were approved by the general body. Prof Ahamed Muneer, GEC Kozhikode briefed the progress of planning for ISTE students' Convention. He was advised by SMC to speed up poster releases and reach-out to other institutions. Vote of thanks was delivered by Prof. Asokan.

Kerala Section Awards 2020-2021

Faculty Chapter Awards

Best Chapter

Vidya Academy of Science & Technology, Thrissur

Chapter with maximum variety of programmes

Mar Baselios College of Engineering and Technology, Trivandrum

Best Emerging Chapter

School of Engineering and Technology, Ernakulam

Special appreciation award for hosting 30th ISTE Annual Convention

JDT Islam Polytechnic College, Kozhikode

Special appreciation award for hosting 18th ISTE Students' Annual Convention

Government Engineering College, Bartonhill

Students Chapter Awards

Best Student Chapter

Mar Baselios College of Engineering and Technology, Trivandrum

Student chapter with maximum new memberships

Government Engineering College, Thrissur

Student Chapter with maximum variety of programmes

Government College of Engineering, Kannur

Student chapter with maximum number of programmes

Government Engineering College, Kozhikkode

Best Emerging Student Chapter

Thejus Engineering College, Thrissur

Best Faculty Advisor to Student Chapters

Dr. Nidhi. M. B.

Associate Professor in Mechanical Engineering
MBCET, Trivandrum

Special appreciation Award for Faculty Advisor

Prof. O. V. Asokan

Associate Professor in Mechanical Engineering
Government College of Engineering, Kannur

Special appreciation Award for Faculty Advisor

Dr. Ahammed Muneer K. V.

Associate Professor in Applied Electronics and Instrumentation
Government Engineering College, Kozhikkode

Best Student Awards

Trinity College of Engg., Trivandrum : **Feba S. M.**

Vidya Academy of Science & Technology, Thrissur :
Nirmal Bino

Mar Baselios College of Engineering and Technology, Trivandrum : **Meenakshi Sunil**

Govt. Engg. College, Kozhikkode : **Indusha Dharman**

Govt. College of Engg., Kannur : **Vismaya Sunil**

Govt. Engg. College, Thrissur : **Ajay M. P.**

TKM College of Engg., Kollam : **Sreehari S.**

College of Engineering, Trivandrum: **Devanand M. S.**

Jyothi Engg. College, Thrissur : **Aswini Nampoodiri**

19th Annual ISTE State Student Convention



The 19th Annual ISTE State Student Convention was conducted during 29-31 January 2021, hosted by Government Engineering College Kozhikode. This time, it was a complete virtual event. The theme of convention was *"Navigating the new normal through advancements in Science and Technology"*. The convention included 5 Workshops, 16 Competitions, 13 Technical talks, 3 Exhibitions, Industrial Visits and Cultural nights.

The official inauguration of the convention was held in hybrid mode on 29th January 2021. Dr. Vijayakumar. K. , Chairman, Kerala Section presided. Dr. Ahammed Muneer K. V., Organizing Secretary welcomed and briefed the proceedings. Dr. Pratapsingh Kakaso Desai, ISTE National President inaugurated the convention in online mode and delivered the inaugural address. Dr. Nidhi M. B., ISTE National Executive member delivered the felicitation speech in online mode. Kerala Section Awards 2019-20 for Student Chapters and Best Student Awards were distributed. Students from various colleges across the State attended. There were more than 900 registrations for the event.

COMPETITIONS

| | |
|----|--------------------------------------|
| 1 | THE DETECTIVE – ONLINE TREASURE HUNT |
| 2 | CODING COMPETITION |
| 3 | ENGLISH ESSAY WRITING |
| 4 | MALAYALAM VERSIFICATION COMPETITION |
| 5 | PAPER PRESENTATION |
| 6 | SWIFT TYPING |
| 7 | GOOGLER |
| 8 | JAM – JUST A MINUTE |
| 9 | GENERAL QUIZ |
| 10 | IDENTIFY THE CIRCUIT |
| 11 | CROSSWORD PUZZLE |
| 12 | IDEA FEST – TELL US YOUR TECH |
| 13 | PICTURE QUIZ – GUESS THE PERSON |
| 14 | KYRIOS – ONLINE DEBATE |
| 15 | BLITZ ONLINE CHESS |
| 16 | BEST DESIGN ENGINEER |

An Industrial visit on Electrical and Plumbing was arranged in association with CADD Centre, Calicut.

The overall championship award was bagged by GEC Thrissur, followed by GCE Kannur as runners up and GEC Kozhikode as second runners up.

The closing ceremony was held on 1st February 2021 through Zoom platform. Dr. Dinesh Topwal, Scientist F, Institute of Physics, Bhubaneswar was the chief Guest of the ceremony.

Technical Exhibition

| Sl. No. | EXHIBITION | ASSOCIATE |
|---------|--------------|----------------------------|
| 1. | FABLAB | SUPER FABLAB KERALA, KOCHI |
| 2. | DRONE | ZINDOT TECHNOLOGIES, KOCHI |
| 3. | TECHNOLOGIES | GADS, TRIVANDRUM. |

Technical Talks arranged in Connection with STUDENTS CONVENTION

| No. | Topic | SPEAKER |
|-----|--|---|
| 1 | SAFETY IN DESIGN AND OPERATION OF PETROLEUM STORAGE TANKS | DR.R.VENUGOPAL Deputy Chief Controller of Explosives PESO Govt. of India |
| 2 | ACADEMIC PUBLICATIONS AND PATENTS | DR.ANIRUDHAN P Professor[NC],GEC Calicut |
| 3 | SCIENCE CHALLENGES FOR SPACE TECHNOLOGY | MANASH BAGCHI Regional Science Centre and Planetarium, Calicut |
| 4 | HOW TO MANAGE YOUR SUPPLY CHAIN UNDER DISRUPTIONS | DR. VIPIN Assistant Professor, IIT Kanpur |
| 5 | AWESOME CONSTRUCTION | C.ER.YASIR UMMER Structural Design Engineer, |
| 6 | IMPORTANCE OF QUALITY CONTROL AND MODERN TRENDS IN CONSTRUCTION | DR.ANIL JOSEPH Director of Geo-Constructurals (P) Ltd. ,Cochin |
| 7 | HISTORY OF CHEMICAL ENGINEERING | DR.B. LAKSHMIKUTTY Retired Professor , GEC Thrissur |
| 8 | RESISTIVE MEMORY- ORGANIC MOLECULES TO THE DEVICE | DR. RATHEESH K VIJAYARAGHAVAN Assistant Professor , IISER Kolkata |
| 9 | WATER TREATMENT RESEARCH AT AIR LIQUID | DR. MIDHUN JOY P Research Scientist, ALIC , USA |
| 10 | FRONTIERS IN COMPUTATIONAL MATERIAL SCIENCE | DR. LINU MALAKKAL Computational Material Scientist |
| 11 | ARTIFICIAL INTELLIGENCE AND INDUSTRY 5.0:POSSIBILITIES AND FUTURE FOR A NEW DIGITAL KERALA | DR.ALEX P JAMES Professor, IITMK, Trivandrum |
| 12 | BALANCING THE MODERN ENERGY SYSTEMS | DR.GAUTHAM KRISHNADAS Director, DTiME Analytics Ltd. ,UK |
| 13 | BASEMENT CAR PARK VENTILATION CFD APPROACH | HASHIR P K CFD Design Engineer, Qatar |

Suggested Activities for Chapters

Staff Training programmes, Invited Talks, Industrial Visits, Pedagogical Training, Microteaching sessions, Competitions, Health Awareness Programmes, Energy awareness programmes, Extra Mural Lectures, Meet the innovator programmes, Observance of various days such as Earth day, World Water day, Environmental day, Teachers Day etc. Students chapters may undertake training programmes, workshops, industrial visits, various competitions, campus modification works, societal interventions, programmes to improve the competencies and employability of students, communication skills, leadership training etc.

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