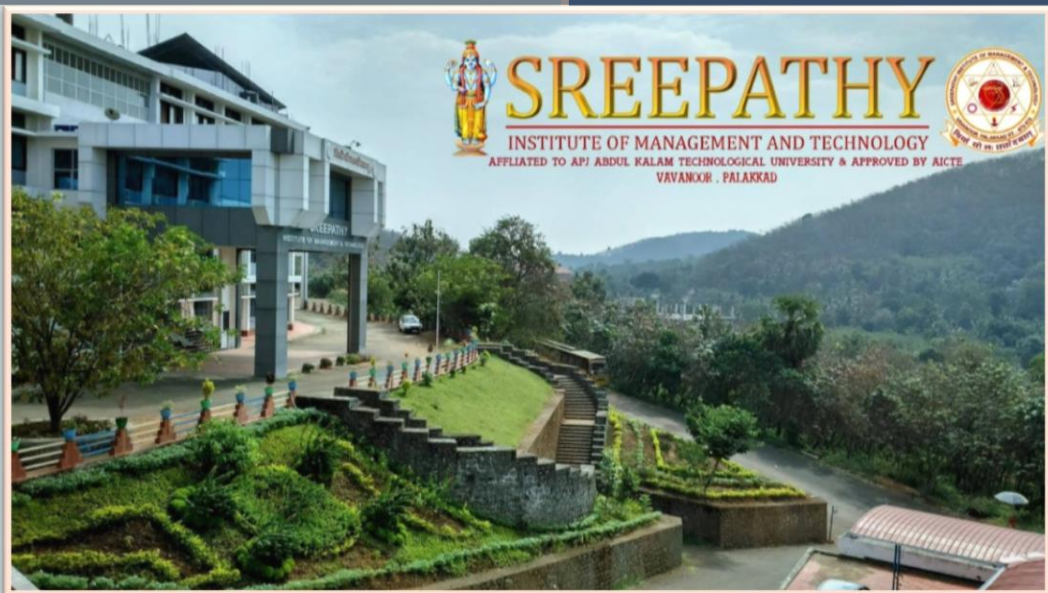# SREEPATHY
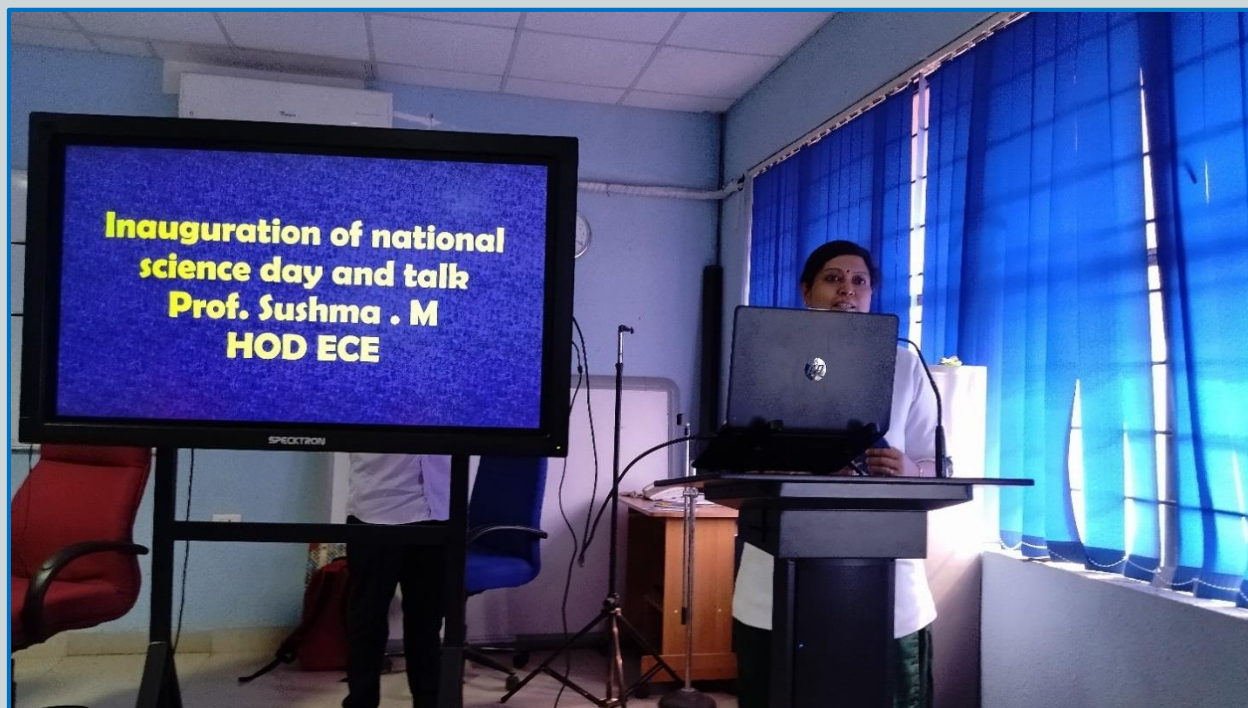
MONTHLY NEWS LETTER

ISSUE NO: 02

FEB 2022

NATIONAL SCIENCE DAY

National Council for and Technology Communication (NCSTC), in 1986, advised the Government of India to announce February 28 as National Science Day. The government accepted and declared the day as National Science Day. The first National Science Day was celebrated on February 28th 1987.

February 28th is celebrated as National Science Day to mark the invention of the Raman Effect. Students from across the country present science-related projects and innovations at the state and national levels.

The day is celebrated to encourage youth to understand the aspects of science and develop an interest in it. Every year, National Science Day is celebrated under various themes, and this year's National Science Day 2022 is "Integrated Approach in Science and Technology for Sustainable Future."

The programme started off with a brief intro of Mr Hithes. P (Assistant Professor in Physics) about Sir. C.V.Raman and his findings which help him win Nobel Prize. This was followed by harmonious prayer by Ms Medha Vasudevan of S3 CE. Mr. Irfan Rehman of S3, CSE delivered the welcome speech.

Prof. Sushma.M, (HoD ECE) inaugurated the programme. She delivered a talk on the need of observing national science day.

Then it was the turn of Dr Ramkumar P N, HOD ME. In his talk he mentioned about role of engineer in design of sustainable system. Mr Sankaranarayanan, HOD CE stressed on the need of adding humane touch while observing such days, with an example of the social situation brought

out by the book "silent spring" written by Rachel Carson. Dr Sagar M Narayanan, HOD AS&H briefed about the need of observing these days with an anecdote.

Dr Hema P Menon, HoD CSE, gave a brief presentation on the need of sustainable development, implications of computer based wastes and energy intensive computing for sustainable development. Mr Janardanan, college administrator narrated the UN sustainable development goals of 201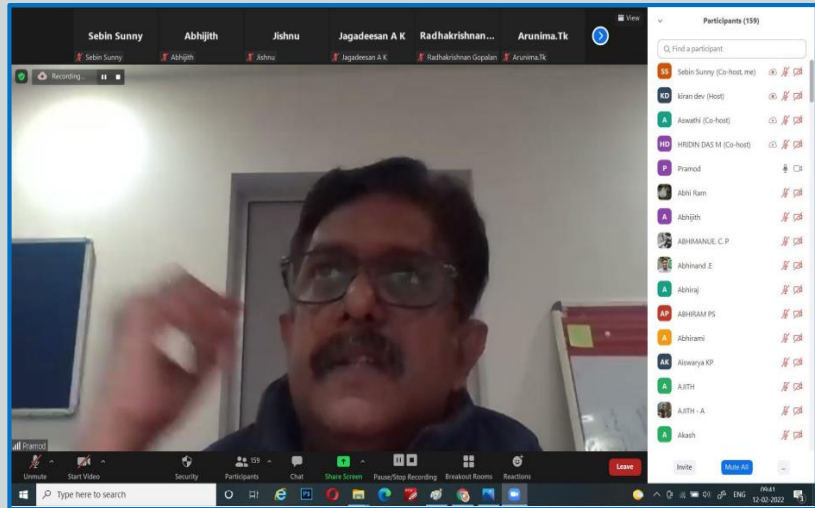5 summit and the means to achieve them through scientific and technological advancements. This was followed by prize distribution of RENOVA8 - DIY scrap and e-waste art competition. The winners were given prize by Prof. Sushma M (HOD ECE).

First prize was won by Mr Gokul C H and Ms Abhirami Namboothiri EA of S1, consolation prize were given to two Team 1 of Ms Vidhya K, Ms Gouri MN and Ms Anjana P of S1 and Team 2 of Ms Prathibha P, Ms Bhuvana B, Ms Soumya R. of S5. Mr. Hithes.P (Asst prof. Physics, Science Club coordinator) felicitated on the occasion. Ms. Arundathidas of S3 CSE expressed vote of thanks.

Compering of the event was done by Ms. Anchana Jinesh S3, CSE. Everybody enjoyed the event. The function came to an end by 4:15pm.

HACK TO THE FUTURE - TWO DAYS HACKATHON

A two day hackathon was organized on 12th and 13th of February 2022 via KDISC Zoom. The event was organized by IEDC SIMAT in association with KDISC. Dr S.P. Subramanian (Principal, SIMAT) inaugurated the event. Mr. Pramod, Associate Professor VKCET, delivered

the key note address. Mr. Kiran Dev, Programme Coordinator KDISC, felicitated the event. Mr. Sebin Sunny P (Nodal Officer IEDC) delivered the hackathon structure, rules and regulations.

180 students from several colleges participated in the hackathon. And the event was concluded on 13th February 2022 with the submission of innovative solutions by different teams. Mr. Hridindas (CEO, IEDC) coordinated the event.

IDEATHON

An Ideathon was jointly organized by IEDC SIMAT and KDISC on 13th February 2022. The event was conducted for HSS students of Palakkad district. The event was inaugurated by Mr Kiran Dev (Programme Coordinator - KDISC). The workshop focused on idea generation based on the problem shelf published by KDISC. The session was handled by Mr Kiran dev and Mr Sebin Sunny P. Ms Anjali (IEDC member) welcomed the gathering and Ms Noufila (IEDC member) delivered the vote of thanks. 70
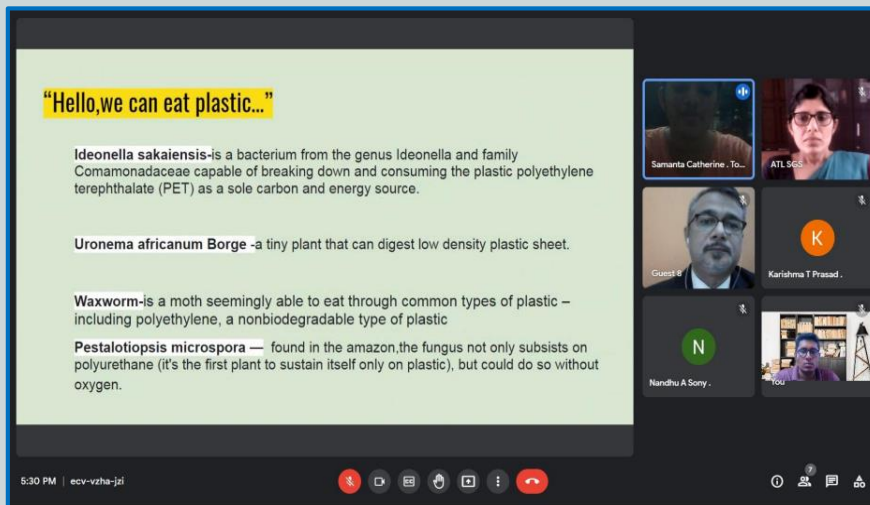
students from different schools attended the workshop.

TINKERFEST

Tinkerfest, an idea presentation competition, was conducted on 19th February 2022 via Gmeet.

The event was jointly organized by IEDC SIMAT and ATL lab for school students. Mr. Rajit Karunakaran (RMoC - Niti Aayog, Kerala) inaugurated the event. Several student teams presented their ideas in the event.
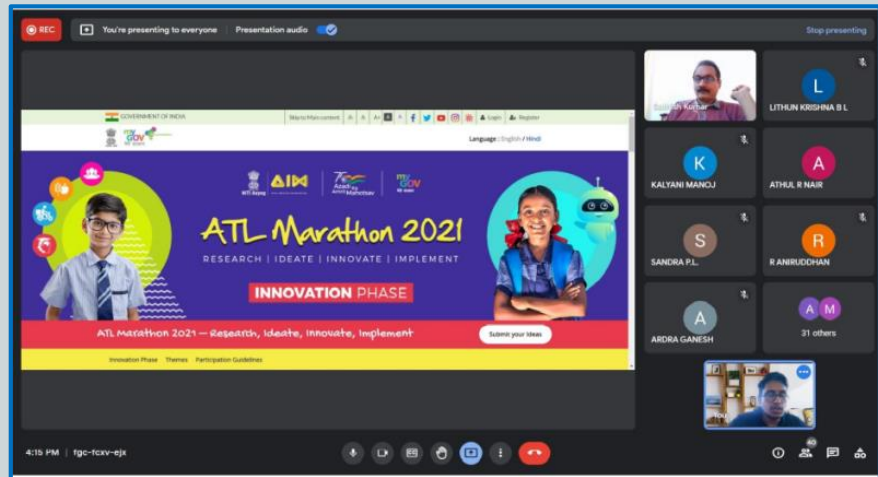

HUDDLE GLOBAL

A two day event, Huddle Global, was organized by KSUM to promote startups among students and was conducted on 19th and 20th February 2022. The event was inaugurated by Mr Pinarayi Vijayan (Hon'ble Chief Minister Of Kerala Government Of Kerala). Mr P. Rajeev (Industries, Law And Coir), Mr Alderman Vincent Keaveny (The Rt Hon The Lord Mayor City Of London),

Mr John M Thomas (Chief Executive Officer Kerala State IT Parks & Kerala Startup Mission), Ms Daisy Chittilapilly (President Cisco India & SAARC) were the key speakers. Several sessions and workshops were conducted as a part of the programme. IEDC members of SIMAT actively participated in the event.

ATL MARATHON WORKSHOP

An awareness workshop on ATL Marathon was jointly organized by IEDC SIMAT and Atal Innovation Mission on 27th February 2022 via GMeet. The session was inaugurated by Mr. Sateesh Kumar (ATL coordinator, Cochin

Refineries School). Mr. Sebin Sunny P (IEDC Nodal Officer - SIMAT) lead the session. Students from several schools attended the event.

KDISC PROJECT FUNDING

As per EOI and MOU submitted by IEDC SIMAT, KDISC awarded the work on Action plan preparation on the identified MSME clusters.

In continuation with mentor development programs and review on potential clusters identified for detailed study and diagnostic report preparation by IEDC, KDISC sanctioned the funding proposal submitted by IEDC SIMAT

KERI PROJECT FUNDING

A project grant to set up a real time reservoir level monitoring system was sanctioned by Kerala Engineering Research Institute - Thrissur. As a part of the programme a group of 5 students will be identified and provided with a one week internship to study and design the Realtime monitoring system at Peechi. Mr. Sudev E. (S5 EEE) coordinated the event

IDEA MARATHON

A three day Idea Marathon was organized for students to create awareness and motivation to identify realistic ideas which can be submitted to the YIP programme organized by KDISC. The event was organized by IEDC SIMAT in association with KDISC on 21st February 2022.

DEEP LEARNING AI COMMUNITY

A preliminary meeting with community leaders across the globe was conducted on 24th February 2022 via Webex.

The objective of the programme was to initiate a deeplearning.ai community in India. DeepLearning.AI is an education technology company that is empowering the global workforce to build an AI-powered future through world-class education, hands-on training, and a collaborative community. DeepLearning.AI was founded in 2017 by machine learning and education pioneer Andrew Ng to fill a need for world-class AI education. DeepLearning.AI has created high-quality AI programs on Coursera that have gained an extensive global following. By providing a platform for education and fostering a tight-knit community, DeepLearning.AI has become the pathway for anyone looking to build an AI career.

KDISC HOI & FACILITATOR MEETUP

A meeting was organized by KDISC for the facilitators and HoIs of HEIs of Kerala via Zoom.

The event was organized to appreciate the efforts taken by colleges in promotion of YIP. As per the data provided, SIMAT ranked 2 in the YIP idea submission.

Young Innovators Programme is a specially designed programme under Kerala Development and Innovation Strategic Council (K-DISC). The programme aims to empower future innovators to innovate new products, services or models to meet emerging requirements, unarticulated needs, or existing market needs of the society more effectively through an innovative challenge.

BAMBOO CLUSTER EXPOSURE VISIT

K-DISC through its district arms the District Innovation Councils (DICs) have initiated the One District One Idea – MSME Innovation Clusters programme (ODOI). As a part of the initiative SIMAT & Govt College, Chittoor, were identified to study the Bamboo cluster of Palakkad District. The bamboo cluster is spread over different places in Palakkad district and consists of more than 250 small units. Bamboo cluster members are primarily skilled artisans engaged in making bamboo related eco-friendly products, handicrafts and utility items.

As a preliminary study, an exposure visit was conducted to Mundur and Nenmara in the first week of February 2022. Mr Radhakrishnan G (Asst. Prof Govt. College, Chittoor), Mr. Sebin Sunny P (Asst. Prof SIMAT) & Mr Krishnan K N (Asst. Prof SIMAT) were the members of the team.

VELLINEZHI KALAGRAMAM CLUSTER EXPOSURE VISIT

K-DISC through its district arms the District Innovation Councils (DICs) have initiated the One District One Idea – MSME Innovation Clusters programme (ODOI). As a part of the initiative SIMAT & Govt. Victoria College, Palakkad, were identified to study the Vellinezhi Kalagramam cluster of Palakkad District. As a preliminary

study, an exposure visit was conducted to Vellinezhi on 28th February 2022. Ms Snadhya (Asst. Prof Govt. Victoria College), Ms Kamarulitha (Govt. Victoria College), Mr Sebin Sunny P (Asst. Prof SIMAT), Mr. Krishnan K N (Asst. Prof SIMAT) and Mr. Sukumaran (Library Assistant SIMAT)were the members of the team.

i-STEM

IEDC SIMAT became a member i-STEM in February 2022. The membership offers research facilities, COBOL & MATLAB licences. Indian Science, Technology and Engineering facilities Map (I-STEM) is a dynamic and interactive national portal, which hosts various scientific programs, initiated by office of the Principal Scientific Adviser, Govt. of India.

The main objective of having this portal (developed using public fund) is to provide support to needy researchers in different ways and strengthen the R&D ecosystem to fulfil the necessity of people of the country.

The supports planned through these programs through this unique portal are designed in such a way that every researcher inculcate the concept of the Aatma Nirbhar Bharat in their mind, nature, and behaviour and work with full dedication to optimize the usage of the resources established across the country, using taxpayer's money i.e. public fund.

IPTIF - IIT PKD SKILL CENTER

A skill centre to impart future technologies was set up under IEDC SIMAT in January 2022. A meeting was convened by officials of IIT Palakkad to discuss the course delivery action plan on 2nd week of February 2022. It was decided to organize short term courses in Python & Matlab during the third week of March 2022.

IIT Palakkad has established IIT Palakkad Technology IHub Foundation (IPTIF) to facilitate the Technology Innovation Hub on Intelligent Collaborative Systems (TIH-ICS) setup at IIT Palakkad by NM-ICPS coordinated by the DST, Govt. of India. TIH-ICS, through IPTIF, plans to attract potential and harness expertise available nationwide, thus fostering research innovation, world class technology and product development.

IPTIF also plans to build linkages with research institutes and labs within and outside India. One of the primary goals of this company is to work in close collaboration with industry to deliver commercial technology and products, and build a vibrant innovation ecosystem by providing a reliable platform for technology-based start-ups and entrepreneurs.

KERI Project Funding

As per the discussions with the officials conducted in January 2022, a project to monitor the reservoir water levels at Peechi dam was jointly initiated by KERI and IEDC SIMAT. As a part of the event a project grant was sanctioned for the students of ECE & EEE to do the prototype. The students will be identified and will be provided a one week internship at KERI Thrissur

KRISHIKKALAM 2022

The Natural Resources Protection Force (NRPF) cell of NSS UNIT 233 SIMAT initiated an agricultural program named "Krishikkalam" through an online platform. This program aims to promote farming activities among the volunteers and to make farm products, especially vegetables which are free from pesticides and other harmful things. The students were instructed to create a new farm at their home and to take care of it. A google drive folder was created for this program, so that volunteers can share the progress with others, by uploading photographs of their farm every week. The program was open to all students of

SIMAT and SIAS and for teachers also. Many students have participated in the program and have updated photographs of their farm through Google drive.

STUDENT ACHIEVEMENT

- ❖ Mr Gokul Krishnan M. K. of CSE (2018 Batch) won the Crossword Competition conducted by IEEE SIMAT SB.
- ❖ Mr Gokul C H, S1 ECE got first prize in FAEZE picture puzzle competition conducted by IEEE
- ❖ Ms Vidhya K, S1 CSE got second prize in FAEZE picture puzzle competition conducted by IEEE
- ❖ Ms Abhirami Namboothiri E A, S1 ECE got third prize in FAEZE picture puzzle competition conducted by IEEE
- ❖ A Project Grant was sanctioned for the students of ECE& EEE to do prototype for Monitor the reservoir water level jointly initiated by KERI & IEDC SIMAT.

STAFF ACHIEVEMENT

- ❖ Mr Sugesh M. S Assistant Professor of ECE department participated in a 5 day FDP on "Applications of Deep learning techniques in 5G wireless communication technologies" organized by department of ECE of VelTech Rangarajan Dr.Sagunthala R & D Institute of Science & Technology, Avadi ,Chennai from 08/02/2022 to 12/02/2022
- ❖ Mr Sugesh M.S Assistant Professor of ECE department participated in a webinar on "How to write successful Research Proposal" held on 23/02/2022 conducted by Department of ECE of Sri Shakthi Institute Of Engineering & Technology ,Coimbatore .

- ❖ Ms Praseena K was the resource person of Art and Craft Hobby workshop conducted by department of ECE in association with department of CSE exclusively for women faculty for jewellery making , bottle art and flower making on 23/02/2022 at seminar hall
- ❖ Dr Ramkumar P N had translated the transcripts of the NPTEL course "Differential equations for engineers" offered by IIT, Madras into Malayalam.
- ❖ National Science day was organised by Science club of SIMAT and NSS under the guidance of Mr Hithes P (Science Club coordinator) and Mr Jishnu B H (NSS Coordinator).
- ❖ Mr Sebin Sunny P attended the meeting organized by KDISC for the facilitators and HoI of HEIs of Kerala for the Promotion YIP Idea Submission.
- ❖ Mr Sebin Sunny P & SIMAT Team organized a Bamboo Cluster Exposure Visit to Mundur & Nenmara for the Preliminary Study.

PROGRAMMES CONDUCTED

- ❖ The Department of CSE & ECE jointly organised an Art and Craft workshop for SIMAT Staff on Feb 23rd.
- ❖ Aster ethical committee meeting for the first set of projects undertaken was conducted on 04/02/22
- ❖ Aster scientific committee meeting for the second set of projects undertaken was conducted on10/02/22
- ❖ DIY scrap and e-waste art contest - towards a sustainable future , was conducted from Feb 24th to Feb 28th
- ❖ A Magazine naming Contest was conducted for selecting a suitable title for the planned CSE Bimonthly Digital Technical Magazine and entries were accepted till 20/2/22.
- ❖ National Science day was conducted by Science club of SIMAT and NSS Tech cell of SIMAT under the guidance of staffs of AS&H.

Scan QR Code to watch the interview with Mr. Sandeep Nithyanandan of 2012-16 batch CSE secured first rank for the post of Scientist / Engineer in ISRO

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