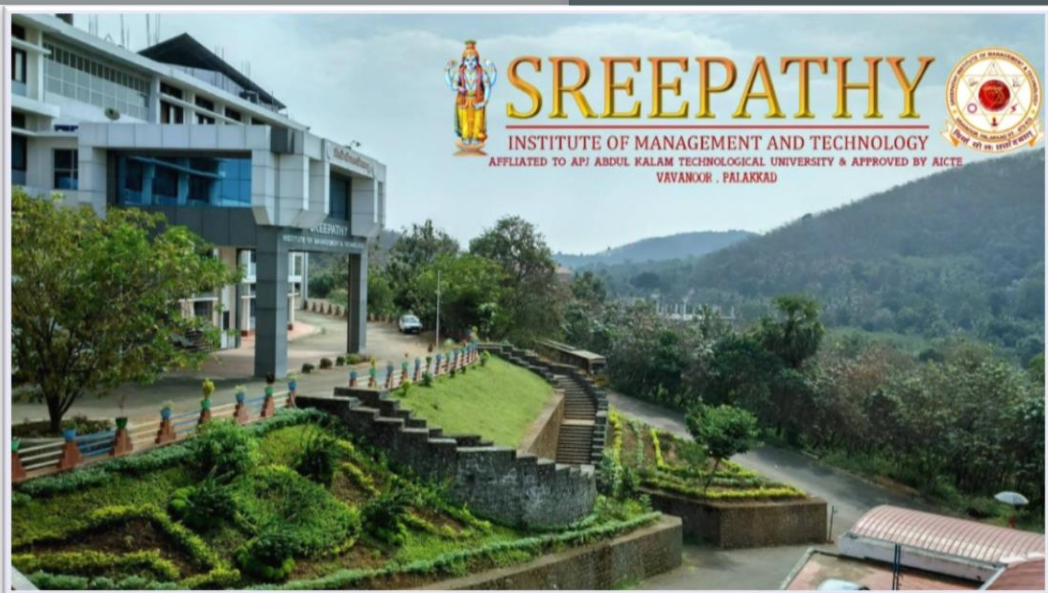


SREEPATHY

MONTHLY NEWS LETTER



ISSUE NO: 04

APRIL 2022

WORKSHOP ON AN INSIGHT TO SIGNAL PROCESSING



One Day Workshop on An Insight To Signal Processing was Conducted by the Department of CSE in association with IEDC and ISTE on 29/04/2022 at Seminar Hall from 9.30 am to 3.00 PM. The resource person of the workshop was Dr R Jayadevan, Assistant Professor Department of ECE, GEC

Sreekrishnapuram. The session started at 9.30 am by invoking the blessings from almighty. Then the stage was handed over to the speaker.

The topics of discussion in the morning session included the basics of signal processing, operations on signals & relevance of signal analysis. The session had a tea break at 11.00 am after which the speaker covered the topics on the need for transforms for signal analysis. The session dispersed for lunch break at 12.30 PM.

The afternoon session started at 2.00 PM focusing on the topic of Fourier Transforms, DFT and also live demonstration of real time audio signal analysis. The workshop



came to an end at 3.00 PM. It was followed by an interaction session with the students of CSE department.

INTRODUCTION TO AUTOMOBILE ENGINEERING

Dr Sagar M Narayanan, took class in Kerala police academy for police official including police drivers, policemen, CI etc. Its of basic awareness related to Automobile, parts of automobiles,



different engine components, gear box shaft, and transmission of power from engine to wheels, discussion of all systems in the automobile engine. Class also included the details of new vehicles and old vehicles. It also included the topics supercharging, turbo charging and ABS system etc.

WORLD RECORD FOR DEVANAND ALUMINI OF SREEPATHY

Mr. Devanand T, an alumni of Sreepathy Institute of Management and Technology received Guinness world record for drawing maximum number of stencil pictures in three hours. He drew



60 stencil pictures in three hours.

The previous record of the same was 46 stencils in 3 hours. Stencils of Devanand includes Swami Vivekananda, father of nation Mahathma Gandhi, Subhash Chandra Bose, other national leaders, Film stars like Mohan Lal, Mammooty, sports person like Sachin, S P.

Balasubramanian, Charlie Chaplin, Obama. His parents are Mr. Dharmapalan (Retd. Police officer) and Mrs. Santhakumari (Teacher).

STAFF RECREATIONAL TOUR BHOOTHATHANKETTU DAM, PANIYELI PORU



A one-day staff recreational tour was organised by the Staff Club of SIMAT. The destination was Bhoothathankettu Dam and Paniyeli Poru, situated in Ernakulum District and around 120 kms from SIMAT. 46 staff members and 4 children enjoyed a fun filled day.

The tour started from the college campus at 6.30 AM and after picking up all members, we had a

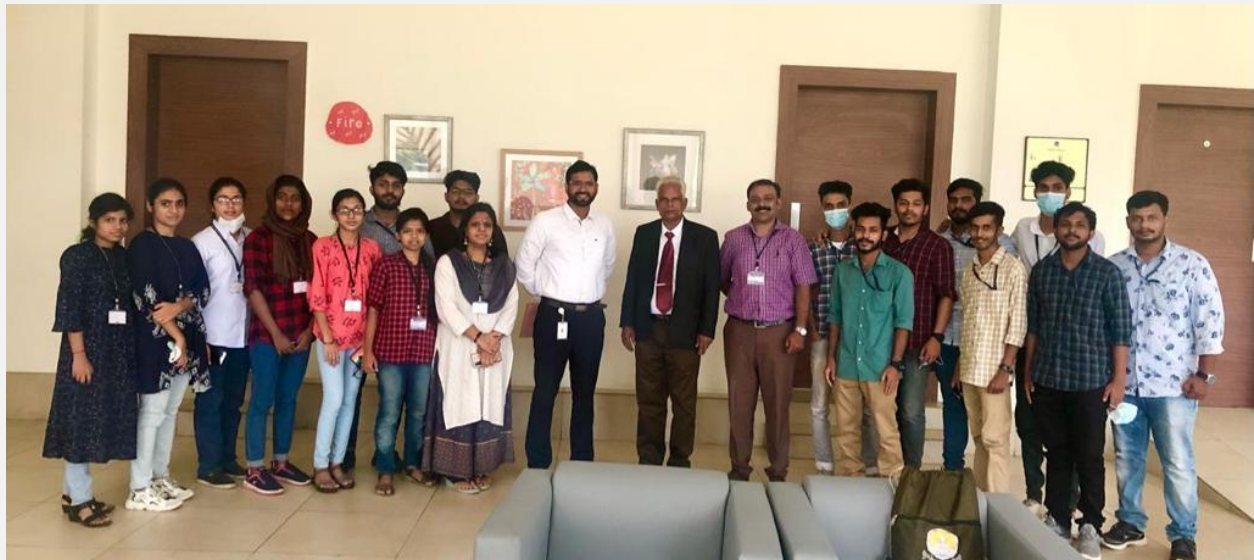


wonderful breakfast at Thrissur. We reached Boothanthakettu dam at around 10.30 AM and there a boat was ready, to take us around the catchment area of the dam. After enjoying the scenic hour long boat ride along the Periyar river with singing and dancing, we travelled to Paniyeli Poru which is around 25 kms from the dam. In between we had a scrumptious lunch.

At Paniyeli Poru, we trekked along the riverside pathway around 2kms into the forest where the Periyar river flows. The forest is pristine with ban on plastics strictly enforced. The river is shallow with lots of rocky outcrops which makes it very scenic. The flowing water makes a symphony along with the chirping of the birds in the nearby forest. It is indeed an alluring locale for those who have a love for nature's splendour. After having tea in the evening, we set back to College with joyful refreshed minds. The tour was rejuvenating and kudos to the staff club for organising a well-planned event.

VISIT TO ASTER MEDICITY AND SIGNING OF MOU

A team of sixteen students and two staff from Dept. of CSE along with Principal, Sreepathy Institute of Management and Technology visited Aster Medcity Kochi, on the 8th and 9th of April 2022 for discussion with doctors on the research projects undertaken, data collection and



signing of MoU. The team reached Kochi on 8th April at 10:30 am and returned at 6:30 pm on 9th April.

Detailed below is the visit report: The team reported at Aster on 8th April at 10:45 am and obtained the entry pass to the hospital. The team was then directed by Dr. Davidson Devasia to the Aster Knowledge Hub area for further interaction. The team was briefed on the general procedures to be followed by visitors within the hospital premises by the doctor. The students were split into their respective project groups for further interaction with the doctors concerned. The faculty then moved on to the signing of the collaborative research project internship MoU between Aster Medcity, Kochi and Sreepathy Institute of Management and Technology, Vavanoor.

The MoU signing took place between 11:00 am to 12:00 pm on 8th April 2022 at the Aster management block conference hall. The signing was done by Dr. S.P. Subramanian, Principal Sreepathy Institute of Management and Technology and Mrs. Ambili Vijayaraghavan, CEO Aster with Dr. Hema P Menon, Professor & HoD, Dept. of Computer Science and Engineering, Sreepathy Institute of Management and Technology, and Dr Davidson Devasia, Neurologist,



Aster Medcity as a witness. The event was also attended by Mr. Jyothis K P, Assistant Professor, Dept. of Computer Science and Engineering, Sreepathy Institute of Management and Technology.

Details of the project-wise discussion are given below:

1. Project Title: Fall Detection and Impact Reduction in Epileptic Children

Team Members: Mr. M Adarsh, Mr. Anirudh S Rajeev, Ms. P Sneha, Ms. P. V. Reshma

Supervisors: Dr. Hema P Menon, Dr. Davison Devasia



As a requirement for project implementation, the required EMG data was collected on 8th April 2022 between 4:30 pm to 6:30 pm at the EMG Lab, Aster Medcity under the assistance of Mr

Arun, Lab technician Aster Medcity. The EMG samples were collected from the students Mr. M Adarsh, Mr. Anirudh S Rajeev, Mr. M. K. Gokul Krishnan, and Mr. Jeslin C John., of Sreepathy Institute of Management and Technology, who volunteered for the same. The dataset was handed over to the students in a CD. On the same day the group gave their presentation and discussed their work with Dr. Davidson Devasia and Dr. Sathyanarayanan from 7:30 pm to 8:00 pm at the LuLu mall food court. The doctors gave input on the type of sensors that can be used and their usage. Emphasis was made on the portability and configuration requirements.

2. Project Title: Patient's Medical History and Record Maintenance APP.

Team Members: Mr. K. V. Dinoop, Mr. K. V. Roshan, Mr. M. S. Sreeram, Mr. K. P. Vaisakh



Supervisors: Mr. K. P. Jyothis., Dr. Hema P Menon, Dr. Geetha Philips, Dr. Davidson Devasia, Dr. Sathyanarayanan.

A discussion with Dr. Davidson Devasia and Dr.

Sathyanarayanan was held from 8:00 pm to 8:30 pm, on 8th April 2022 at LuLu mall. The group presented their work and got suggestions from the doctors. The doctors gave suggestions on the improvements that can be done to the GUI and the features that the app should emphasise on.

3. Project Title: Life skill training for children with ASD using Virtual Reality.

Team Members: Mr. E Rohith, Mr. M. K. Gokul Krishnan, Mr. Jeslin C John, Mr. K. Rithwik Krishnan

Supervisors: Dr. Hema P Menon, Dr. Davison Devasia.



A discussion with Dr. Davidson Devasia and Dr. Sathyanarayanan was held from 8:30 pm to 9:00 pm, on 8th April at the LuLu mall. The group presented their work and got suggestions from the doctors. The doctors expressed their concern on the ability of autistic children to cope up with the usage of the developed model. They gave suggestions on the different environments that the

training model can include, the usage of bright colours to make the model attractive and user instructions that the model should include.

4. Project Title: Epileptic Spike Detection and Elimination of False Prediction.

Team Members: Ms. P. R. Anagha, Ms. E. K. Fathima Shahana, Ms. Parvathy S Menon, Ms. M. Sruthy

Supervisors: Dr. Hema P Menon, Dr. Davidson Devasia, and Dr. Sandeep Padmanabhan.



The team presented their work and had a discussion with the doctors on 8th April from 9:00 pm – 9:30 pm. The doctors gave suggestions on how to spot abnormalities in signals visually on how to determine the sections of brain from an EEG signal.

As a requirement for project implementation, the required EEG data was collected on 9th April between 11:00 pm to 12:30 pm. This was done at the EEG lab, Aster Medcity under the assistance of Ms. Anupama, Ms. Anjali, Lab technicians Aster Medcity. The EEG collected from Anonymous subjects was explained to the group and a CD with the required dataset was handed



over to the students.

After all groups completed their presentation and discussion, everyone had dinner from the LuLu food court and spent some more time at the mall and returned to the accommodation venue at 11:00 pm. The stay for one night was arranged at Reccaa Club, Kakkanad and the college arranged Anugraha travels, Padinjarangadi for the entire travel.

On 9th April at 2:00 pm all students were asked to report at Seminar Hall, Aster Medcity for certificate distribution. Certificates were handed over to each and every student by Dr. Davidson Devasia from 2:00 pm and 3:30 pm. After this a brief meeting was held to discuss the future plans and implementation procedures. The meeting was attended by Dr. Geetha Philips, Director - Academic Affairs, Aster Medcity, Dr. Davidson Devasia, Aster Medcity and Dr. Hema P Menon, Sreepathy Institute of Management and Technology. The team then thanked the doctors for their support and guidance and returned from Aster at around 5:00 pm. On the way back everyone had brunch from Lulu mall and started their return journey to College.

INTRODUCTION TO NEXTREME

IEEE SIMAT SB has conducted an exciting session INTRODUCTION TO NEXTREME on 17th of April 2022 at 7.00 PM through Google meet. The topic of the interactive session was “INTRODUCTION TO NEXTREME”. A total of 38 students participated. The speaker of the session was Vaishnav S, Chair of IEEE SB SIMAT. The session was based on a general introduction to the coding program Nextreme organised by IEEE SIMAT SB and it was exclusive for SIMAT students. The meet was conducted on 17th April 2022. The link for the google meet was provided through social media. The session started at 7.00 PM and it ended on 7.30 PM. It was a wonderful session.

SIMAT PEER TO PEER

IEEE SB SIMAT has launched a programming tutorial of “Programming in C” entitled SIMAT PEER TO PEER to gain a comprehensive understanding of programming. The first day of the tutorial was held on 26th April 2022 from 3-4 pm at the ECE Tutorial Room. The first day was about the basic ideas of the C programming. The main intention of the program is to improve the basic coding skills of the participants.



ARDUINO WEEK

IEDC SIMAT was identified by Arduino to host the Arduino week in the last week of March 2022 ending 4th April 2022. Several online sessions were organized for the innovators with the support of Arduino

Day 1 : Artificial Intelligence

Day 2 : All things IoT

Day 3 : Home Automation,
Interactive Arts & Robotics

Day 4 : Arduino Pro

Day 5 : EdTech



HACK TO THE FUTURE

Finastra in association with KTU selected few KTU faculty members as Judges and Mentors



along with Industry Leaders for the Hack To the Future International Hacakthon 2022. Mr. Sebin Sunny P (Nodal Officer - IEDC) was selected by KTU for the judging and mentoring panel. The event was conducted on 10th April 2022.

SARVASIKSHA KERALA TINKERING LAB

Mr. Sugesh M S (AP, ECE) & Mr. Sebin Sunny P (Nodal Officer - IEDC) were selected as advisory members for the Tinkering lab under Sarva Shiksha Kerala at Vatenad Govt HSS. A discussion and vendor presentation was organized on 14th April 2022 at Vatenad Govt HSS.

DARSHANA IGNITE



Darsana conducted its annual innovation and entrepreneurship competition, IGNITE 2022 in association with KTU. The program aims to identify innovators and entrepreneurs from our campuses, provide them recognition and support to nurture their project into an enterprise. The event duration was about 5 months starting from the registration to the awards, which was organized during Dec - March 2022. KTU selected faculty experts from different engineering colleges to mentor and judge the teams participating in the 5-month event. Mr. Sebin Sunny P (Nodal

Officer IEDC) was selected by KTU for the event as an expert member of KTU Panel.

TOP PERFORMING IEDC AWARD



The programmes and activities organized under the Innovation and Entrepreneurship Development Centres (IEDCs) have laid a robust foundation for the Kerala Startup Ecosystem. KSUM announced the results of the Accreditation of IEDCs in Colleges - Kerala Ranking Framework for the Period 1 April 2019 - 31 March 2021 in the third week of April. KSUM have considered various factors while evaluating how the IEDC has evolved/doing activities/actions in promoting the entrepreneurship ecosystem. It includes;

Evangelisation of Entrepreneurship, Promotion of Innovation, Supporting Incubation and Business Development, Alignment with Institutional Mechanisms, and Strengthening of the Ecosystem. IEDC SIMAT was selected as one among the 8 iedc's as the top performing IEDC in the state of Kerala. An amount of Rs 1 Lakh was awarded for the achievement.

SMART INDIA HACKATHON

Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. The first four editions SIH2017, SIH2018, SIH2019 and SIH2020 proved to be extremely successful in promoting innovation out-of-the-box thinking in young minds, especially engineering students from across India. Mr Sebin Sunny P (Nodal Officer IEDC) was selected as the SPOC of the hackathon. A hackathon was organized by IEDC SIMAT and 3 teams were identified from different domains to participate in SIH 2022 are Team 1: VTOL (S8 EEE), Team 2: Ayurmetry (S8 EEE) and Team 3: Agricure (S4 EEE)



IIT INNOVATION HUB VISIT

As a part of research collaboration Mr. Sebin Sunny P (IEDC Nodal Officer) & Dr K T Madhavan (RDIC Head) visited the innovation hub at IIT Palakkad on 21st April 2022. Dr Aravinda Joy (Innovation hub



coordinator and Asso. Professor, IIT Palakkad) gave a brief overview of the innovation hub and the different labs of IIT palakkad were introduced. IIT Palakkad has offered all their support to develop innovative projects at SIMAT

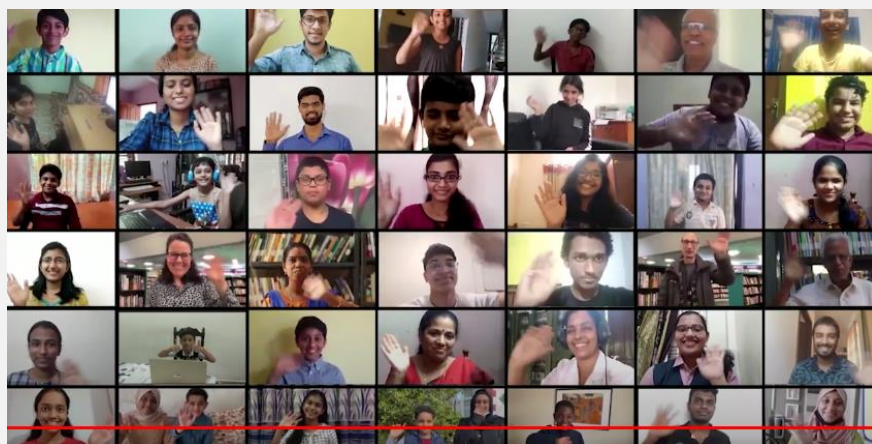
RASPBERRY PI GROWTH PARTNER

A meeting was coordinated by IEDC SIMAT between Mr. Riyas (Project Director, KSUM), Mr. Anhuj Alphonz (Country Director, Raspberry Pi Foundation) and Divya Joseph (National

Programme Manager, Raspberry Pi Foundation) in the last week of April 2022. The objectives of the meeting included selecting IEDC SIMAT as the growth partner, implementing the SALT (Startup Awareness and Leadership Training) in ATL based schools, Initiation of more community maker spaces in libraries and a collaboration between IEDC SIMAT, KSUM and Raspberry Pi foundation. The meeting objectives were briefed by Mr. Sebin Sunny P (nodal Officer, IEDC SIMAT). Divya Joseph introduced the activities of RPi foundation in India and Mr. Riyas briefed the role of IEDCs in the innovation space of Kerala.

COME AND CODE

Fourth cohort of Come and code India was started on 22nd April 2022. The event was jointly organized by IEDC SIMAT, PKV Vanitha Library, Quilon Public Library and Vision Redbridge



Central Library, UK. The event started with a welcome address by Ms Jyothi (Senior Librarian, PKV). The workshop content was introduced by Mr. Sebin Sunny P (IEDC SIMAT Nodal Officer). The workshop

introduction was followed by a session in Python by the mentors of Come and Code.

UBA REGIONAL MEETUP

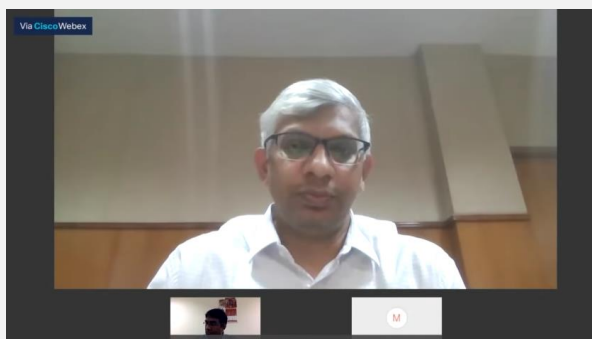
A regional meet up of UBA institutes under IIT Palakkad was organized on 23rd April 2022. The event was organized by IIT Palakkad and KILA Mulamkunnathukavu. Panchayaths and UBA institute members from 5 districts participated in the event. Dr Joy Elamon (Director, KILA) inaugurated the event. Dr Rajesh (Senior Urban Fellow) briefed the agenda of the meeting. Dr Athira (Regional Coordinator, IIT Palakkad) briefed the UBA activities carried out in the region. Dr Sahely (UBA coordinator, IIT Palakkad) gave an



overview of the activities conducted by IIT Palakkad. The sessions were followed by a group discussion in which HEIs and panchayath officials of districts were grouped and discussed on the problems and possible solutions. Mr Sebin Sunny P (UBA Coordinator, SIMAT) represented SIMAT in the meetup.

KALAM PROGRAM FOR IP LITERACY AND AWARENESS

IP Awareness week was observed by IEDC SIMAT with the support of AICTE and Ministry of Education Innovation cell under the KAPILA scheme. Kalam Program for IP Literacy and Awareness (KAPILA) organized awareness program in collaboration with 'National



Intellectual Property Awareness Mission (NIPAM). The program aims to establish the prerequisite IP filing ecosystem in a large number of educational institutes thus creating a culture of systematically protecting new ideas, research, and innovation having national and global relevance. The sessions of 2hrs in the program were conducted during

National IP literacy week across 75 centres from 26th to 29th April 2022. All the sessions were streamed during the activity hours.

COOLEST PROJECTS

Coollest Projects is the world's leading technology showcase for young people. It's a unique opportunity to get creative, have fun, and celebrate ingenuity. Projects are showcased in the



gallery for people all over the world to see! Coolest Projects Global is free and open to creators up to the age of 18, wherever they are in the world. IEDC SIMAT was identified as

one among the two amplifiers of Kerala for the Coolest Projects event by Raspberry Pi

Foundation. As a part of the programme several awareness sessions were organized by IEDC SIMAT.

DENTAL CHECK UP CAMP

The NSS UNIT 233, SIMAT in association with Malabar dental college & research centre conducted a dental check-up camp on 25th April from 10 am to 12:30 pm at the college medical consultation room. The volunteers had arranged all the facilities for the smooth conduction of the camp before it started. The doctors and other medical staff reached on time. Many teachers, students and other staff were partaken in the dental camp and checked their dental health. About 70 people attended the event. At the end of the program, the volunteers have given their feedback to Malabar dental college for their good service. They provided a certificate for conducting the dental check-up camp successfully. Many volunteers, as well as teachers, took part and made the campaign successful.



IDEA DAY

Idea day is conducted with a view to scout talented innovators from the campuses across the state and transform them as technology entrepreneurs, Kerala Startup Mission hosts a yearly pitching event, IDEA FEST. IDEA FEST provides Innovators an opportunity to present their ideas or college projects, which can be converted to a practical real world solution, in front of an elite panel and the teams which are shortlisted by the panel are offered grants based on the development stage and innovative value of their ideas. This year for the first time, Idea Fest is open to student as well as faculty innovators. This year we will identify 1000 innovators from the campuses and will be given an opportunity to attend customised startup bootcamps which are curated according to their requirements and out of these 1000, 100 best ideas will be funded through "Let a 1000 Flowers Bloom".

Three student groups and one faculty group successfully participated in the idea fest. The teams are Team 1: Ayurmetry (Vishnulakshmi & Terinshim - EEE SIMAT, Jomial & Nirenjana - Kotakkal Ayurveda Medical College)
Team 2: Agricure (S4 EEE)
Team 3: Virtual Fencing (Yesudas P Y, Hareesh, Akhil - S6 CSE)
Team 4: Canal Automation (EEE & KERI)

STAFF ACHIEVEMENT

- ❖ Mr. Ratheesh (Physical education Instructor) was the technical official for National Federation Cup Athletic championship held at Calicut university stadium (organized by Kerala state athletic association) from 1st to 4th of April 2022.
- ❖ Mr. Ratheesh (Physical education Instructor) represented Kerala athletic team in National Masters Athletic championship held at Chennai from 27th to 30th of April 2022.
- ❖ Dr Ramkumar P N has successfully completed Suicide Prevention Online Training organized by the Institute of Mind and Brain in association with the University of Cambridge.
- ❖ Dr Hema P. Menon visited the firm, Nectar, an IT startup, for the discussions regarding Internships.
- ❖ Mr. Sugesh M S, Asst. Prof. ECE Department was a part of a team that has applied for patent on 04/04/2022 (Application No.202241020127 A). Title of the invention: A METHOD FOR EFFICIENT POWER ALLOCATION IN MULTIPLE INPUT/OUTPUT AND SMALL CELL NETWORK SYSTEMS



PROGRAMME CONDUCTED

- A training program “Campus to Corporate” was conducted for S6 students of SIMAT by the placement training department which covered the prerequisites of transition from campus to corporate

- A meeting regarding MoU signing between SIMAT & Linways for Internship & Job opportunities was conducted on 11/04/22. Dr Hema P. Menon, HOD, CSE & Ms. Jayasree N. Vettath, AP, CSE attended the meeting
- A meeting was held with Dr. Sandeep Padmanabhan & Dr. Davidson, Aster Medcity on 21/04/22. Dr. Hema P. Menon, HOD, CSE, Ms. Parvathy S. Menon, Ms. Anagha P. R., Ms. Sruthy M. & Ms. Fathima Shahana from 2018 Batch CSE attended the meeting
- As a part of skill development students from S6 & S8 CSE visited the Nodal Center for Robotics & AI in GEC Thrissur.
- S8 students were given a training program on resume writing, group discussions etc on 5th and 6th April 2022 by the Placement and training department.
- Dept of EEE organized a one-day seminar on skill development in association with ASAP on 28th April 2022.

VISIT TO NODAL CENTRE FOR ROBOTICS AND ARTIFICIAL INTELLIGENCE AT GOVERNMENT ENGINEERING COLLEGE, THRISSUR

A team of 42 students and 4 staff members visited the Nodal centre for Robotics and Artificial Intelligence (NCRAI) at Government Engineering College, Thrissur on 27th April 2022. The team started from the college campus at 9.15 a.m. and returned back at 3.15 p.m. The team included students of the



sixth/ eighth semester from Computer Science Engineering, Electronics and Communication Engineering and Mechanical engineering departments along with the faculties (Dr. Hema P. Menon, Dr. Sagar M. Narayanan, Dr. Ramkumar P. N., and Mr. Sreedath M. K).

Nodal centre for Robotics and Artificial

Intelligence (NCRAI) is being established at Govt. Engineering College, Thrissur with two objectives of 1) Providing facilities for frontline Research in Robotics and AI 2) Organizing Training and skill Development programmes for technical institutes in the field of Robotics and AI. The facility is envisaged to be shared by various engineering colleges, polytechnics and technical high schools under Department of Technical Education, Kerala and function as a centre of excellence in ROBOTICS & AI. The centre which started functioning in June 2019 is funded by Higher education department, Government of Kerala.



The visit was mainly intended to familiarise the Robotics laboratory and to seek the possibilities of collaboration with the field experts. The team was welcomed by Dr. Sudheesh R. S. (Associate Professor, ME, Staff in charge NCRAI) and he gave a short introduction about the centre and the facilities available there.

Later, Dr. Lalu P. P. (Assistant Professor, ME, Staff in charge NCRAI) gave a presentation

on the ongoing and completed activities/ projects by the students and research scholars.

Afterwards, faculties had a discussion with Dr. Sudheesh R. S. and Dr. Lalu P. P. It was informed that NCRAI is open to any institute for doing collaborative research projects. Staff in charges of NCRAI welcomed SIMAT to utilize the centre for doing projects through the collaborations/ MOUs as possible.

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