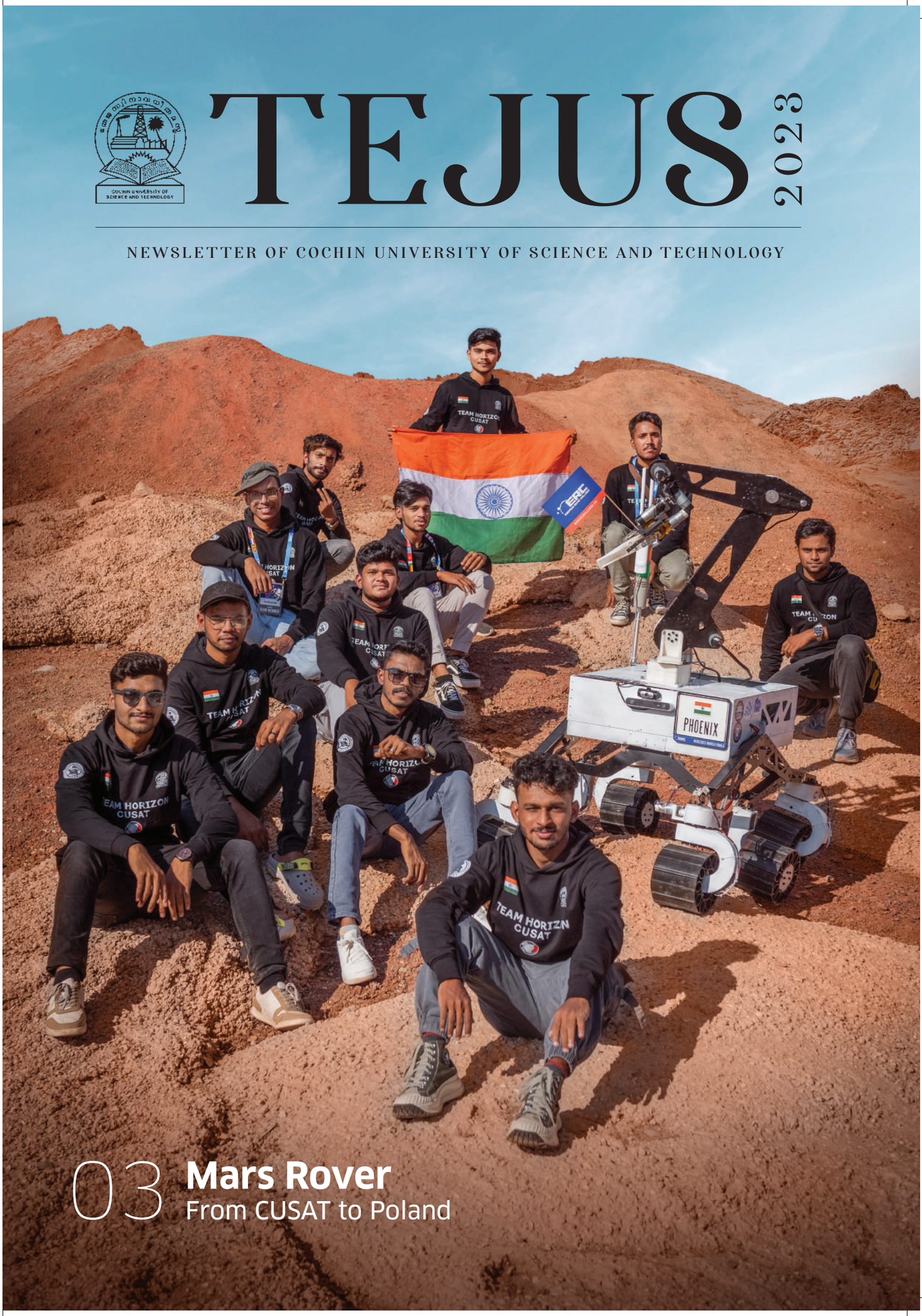
TEJUS 2023

NEWSLETTER OF COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



03 **Mars Rover**
From CUSAT to Poland

Tejus

2023

In loving memory of **Athul Thampi, Ann Rifta Roy, Sara Thomas** and **Albin Joseph**

THE FOUR YOUNGSTERS LOST THEIR LIVES IN AN ACCIDENT THAT OCCURRED DURING THE ANNUAL TECH FEST DHISHNA ON NOVEMBER 25. THOUSANDS OF PEOPLE PAID HOMAGE TO THE DECEASED AT SCHOOL OF ENGINEERING, CUSAT, AND THE CONDOLENCE MEETING HELD ON NOVEMBER 27.

Mars Rover Designed by Team Horizon Steals the Show at European Rover Challenge in Poland

The University's Team Horizon becomes the only Team from Kerala to qualify for the finals of the annual European Rover Challenge competition organised in Poland by the European Space Agency and European Space Foundation. The CAD model of Mars Rover designed by the university's interdisciplinary team of 38 students secured the world-wide rank of 19 at the biggest robotics and space event in Europe that addresses the world of science and business. As many as 25 out of the 54 teams from across the globe qualified for the finals.

THE CAD MODEL OF MARS ROVER DESIGNED BY TEAM HORIZON

Team Horizon worked six sub teams under six categories led by Muhammed Siyad P (Computer Science Engineering), managed by Romal Josbin (Mechanical Engineering) and Anand K Vinu (Computer Science Engineering) as the Chief Designer. The sub-teams were led by Nizam Abdul Aziz (Mechanical), Eldhose and Adrin (Electronics), Angelo Anto (Software), Alosh (Science), Jishnu (Media) and Malavika S. (Marketing).

Outperforming top universities like Imperial College, London, Team Horizon scored a worldwide rank of 21 and a national ranking of 3 in the competition by designing and building their own versions of the Mars rover and performing various predefined tasks set by organisers in a Mars-like environment.

The team worked under the supervision of Sheena K M, Dr. N Biju and Dr. Sasi Gopalan. Vice Chancellor Dr. P G Sankaran congratulated the team for the achievement.

CUSAT Becomes First University in Kerala to Announce Menstruation Benefits for Students

In a historic move, Cochin University of Science and Technology has declared 'menstruation benefits' for female students in the form of additional condonation of shortage of attendance.

The university has issued an order allowing the girls to claim an additional condonation of 2% of the attendance in each semester. This is the first such declaration made by a university in Kerala. Usually, only students who have 75% attendance of the total working days will be allowed to appear for each semester examination. Those falling short of the required attendance need to submit applications seeking permission for condonation and produce medical certificates to justify their absence from the classes on medical grounds. Once their applications are approved by Vice Chancellor Dr. K N Madhusoodanan, the students will have to remit a special fee for condonation.

Female students need not follow these formalities to claim the additional 2% condonation of attendance. The university decision has thus lowered the eligible attendance to 73% for every semester. Various student organisations have been pushing for the menstrual bonus for female students for some time.

A proposal they presented to the Vice Chancellor in this regard was approved and an order was issued.

Era of Gender Neutral Uniform Begins

After the revolutionary order of menstrual leave for female students, Cochin University of Science and Technology featured in the news again with the important order of gender neutral uniform. The School of Engineering (SOE) issued an order allowing boys, girls and transgender students to wear the uniform of their choice. The current rule is that male students wear shirts and pants and female students wear churidar. With the implementation of the new order, any gender can choose the uniform of their choice.

Namita George, Chairperson of the Students' Union, said that the gender neutral uniform proposed by the university is applicable to all students in the School of Engineering and this is an important step towards equality for the student community including male, female and transgender.

Dipak Kumar Sahoo, Principal, SOE said, "The 2400 Btech students in the School of Engineering will now be able to wear gender neutral uniforms".

Dr. P G Sankaran Assumes Office as Interim Vice Chancellor

Dr. P G Sankaran assumed office as the interim Vice Chancellor of Cochin University of Science and Technology on April 26 after the tenure of Dr. K N Madhusoodanan ended on April 24.

The Pro-Vice Chancellor of the University for four years, Dr. P G Sankaran has more than 22 years of experience in teaching as well as research, with

over 175 publications to his credit. He had served as the Head of Department of Statistics and the Director of Centre for Population Studies of the University.

A cordial welcome was extended to the Vice Chancellor at the Administrative office by the staff led by Dr. Meera V, Registrar. Members of various service organisations were also present.

The First Varsity in State to Pen its History

For the first time in the history of a university in the state, Cochin University of Science and Technology released its prestigious history as a book on March 18. The book titled 'A Journey towards Excellence: 50 Years of Cochin University of Science and Technology' was released by P Rajeeve, Minister for Law, Industries and Coir, Government of Kerala, at a packed ceremony at the Science Seminar Complex.

"Universities should work in such a way that it reflects the changes in society only then will history be popular," the minister said. He added that it is important to check that the universities are able to take up the challenges and find solutions to the problems faced by society. He reminded that in the context of the government's decision to build industrial parks along with higher education institutions, the universities need to maintain excellence.

"CUSAT now has a teaching community led by the younger generation. The university is presenting its 50-year history in front of the youth. This will be a guide to fulfill the past and future goals,"

said Vice Chancellor Dr. K N Madhusoodanan in his presidential speech.

Receiving the book, former Vice Chancellor Dr. K Babu Joseph commented that every history is made under different perspectives and different experiences.

The event was a grand get-together of the CUSAT family with the presence of former Vice Chancellors, retired and serving staff and students. Dr. P G Sankaran, Pro-Vice Chancellor, Dr. V Meera, Registrar, and Dr. A Vijayakumar, Emeritus Professor and Editorial Board member, also spoke.

'A JOURNEY TOWARDS EXCELLENCE: 50 YEARS OF COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY' RELEASED BY P RAJEEVE, MINISTER FOR LAW, INDUSTRIES AND COIR, GOVERNMENT OF KERALA

The 260-page book, spanning over 25 chapters, is a wonderful tribute to all the architects of the University who played great roles in shaping up an institution par excellence. Penned by a team of retired and serving staff of the university, the book details the journey of the University through the ebb and flow, touching upon major milestones, interesting anecdotes and various perspectives.

Prime Minister Narendra Modi Inaugurates 5G Use Case Lab

Prime Minister Narendra Modi on October 27 inaugurated the 5G Use Case Lab set up in the Department of Electronics, with the help of the Department of Telecommunications (DoT). 5G Use Case labs have been set up in 100 selected academic institutions as part of preparing higher education institutions to meet the digital needs of the country. The lab was inaugurated at the 7th India Mobile Congress in Delhi.

Dr. P G Sankaran, Vice Chancellor, Dr. Meera V, Registrar, Dr. Benjamin P Varghese, Controller of Examinations, Syndicate Members, Deans, Heads of the departments and faculty members of CUSAT, Higher officials from the Department of Telecommunication, Govt. of India, and BSNL, Ernakulam, were also present at the function. Nodal Officer Dr. Supriya M H attended the function in person at New Delhi.

More than 1,500 students across all disciplines from CUSAT and nearby institutes participated in the video conference streamed live at CUSAT Seminar Hall. After the video conference, CUSAT, in association with IEEE Kochi subsection, organised technical talks related to the advancements and use cases in 5G technologies. Dr. Deepak PM, Lead Research Engineer, Centre of Excellence in Wireless Technology. Chennai, presented the standardisation of 5G technologies and Dwijith Rajagopalan, RTL FPGA Design Engineer, VIAVI Solutions, UK and alumnus of the Department of Electronics presented the evolution and use cases of various 5G technologies.

Once the 5G lab becomes operational, students, startup companies and MSMEs around CUSAT will be able to use the 5G facilities. This lab is a key link to the global digital ecosystem. Apart from CUSAT, only IIST, IIT and NIT have been allotted 5G Use Case labs in Kerala.

PRIME MINISTER NARENDRA MODI ADDRESSING THE 7TH INDIA MOBILE CONGRESS IN DELHI

CUSAT Bags Kerala Leadership Award for Best Academic Institution

On March 17, the University received the Kerala Leadership Award for Best Academic Institution, instituted by the World Federation of Academic & Educational Institutions.

The Kerala Leadership Awards are instituted for academic institutions and individuals based on their track record and achievements in the field of Education, Placements, Leadership, Best in-class Infrastructure, Student Impact (Internal to the Organisation) and Future Orientation. The award jury comprises senior leaders, researchers and academicians.

University Bags State Biodiversity Award

The University bagged the State Biodiversity Award 2021-22 instituted by the Kerala Biodiversity Board, under the Institutional category (Govt/Corporations/Public Sector). The award comprises a citation and an amount of ₹25,000. The activities of the Green Campus Cell of the University instigated by the Internal Quality Assurance Cell was instrumental in winning the award.

Last year, the University had bagged the award instituted by the Department of Agriculture and Farmer Welfare, Govt. of Kerala, under the institutional cultivation category.

Green activities include fallow land cultivation, establishment and maintenance of Butterfly Park, Fruit Tree Garden, and indigenous tree plantation, among others.

The University was supported by Nippon Motors Corporation with its CSR funds along with the Division of Social Forestry, Kerala Forest and Wildlife Department, Department of Agriculture and Fisheries Welfare in carrying out gardening activities in the Campus.

Green warriors, the student teams to conserve nature, have taken significant strides in Green Campus activities at the University. Students spent their time at Green Bay and exploring Nature Walk which has increased their affinity to nature conservation. Programmes like Nature Quiz are conducted and days of importance like Environment day are observed with great enthusiasm by the Green warriors at the University.

THE AWARD COMPRISES A CITATION AND AN AMOUNT OF ₹25,000

Creditable Performance by CUSAT in QS World University Ranking: Sustainability 2024

CUSAT has made an entry into the top 1000 universities in the world in the recently released QS World University Ranking: Sustainability 2024. The university is participating in this ranking framework for the first time.

The rankings are based on a methodology that comprises indicators that are designed to measure an institution's ability to tackle the world's greatest environmental, social, and governance (ESG) challenges. CUSAT is ranked in the 921–940 bands in the world, 262nd in Asia, 29th in India, and 1st in Kerala among the world's premier universities that are leading the way in social and environmental sustainability. CUSAT has bagged commendable ranks in many subcategories as well. It is ranked 333 in the world, 9th in India in the governance category, 640 in the world, and 27th in India in the Environmental impact category.

The QS Ranking provides the world with a unique lens through which institutions are demonstrating a commitment to a more sustainable existence.

More than just the commitment, it looks for outward evidence of this, from the impact that alumni are making in science and technology to solve climate issues to the impact of research being done across the UN's 17 sustainable development goals.

The QS Ranking evaluates the social and environmental impact of universities both as a centre of education and research as well as a major employer with the operational sustainability challenges of any large and complex organisation.

MoU Signed for CUSAT's First Faculty Startup

MSorita LLP Develops Probiotic for Waste Management and Disease Control Aquaculture Farms

In a first of its kind faculty start-up in a university in the state, a faculty member of CUSAT signed an MoU for a venture launched along with two alumni of the university. Dr. Vrinda S, assistant professor, School of Environmental Studies, CUSAT, and CUSAT alumnae Dr. Jasmin C., director, Enfys Lifescience Pvt.Ltd, and Abhilash K S, Young Professional II, Mariculture Division Central Marine Fisheries Research Institute, have signed an MoU with CUSATECH Foundation for the startup MSorita LLP, which would to scale up the production of a custom-made probiotic and booster medium for organic waste management and disease control in aquaculture farms and backwater ponds.

Designed by CSIR-National Institute of Oceanography, the innovative microbial consortium (probiotic) was field tested in Gujarat, Karnataka and Kerala. Offering microbial solutions for organic waste management, disease control, and growth enhancement in aquaculture farming, the probiotic increased income from fish farming ecosystems, especially shrimp farming. By promoting sustainable practices in aquaculture and related fields, Msortia will engage in research and develop better and affordable products for aquaculture farming industries. They will also conduct scientific services to assist aquaculture farmers.

VICE CHANCELLOR DR. P G SANKARAN HANDING OVER THE MOU BETWEEN CUSATECH FOUNDATION AND MSORITA LLP

Msortia was the only start-up from Kerala and the only aquaculture-based startup from the country invited by CSIR to attend the Centre-Science Conclave in Ahmedabad, Gujarat, in September.

First University in State to Unveil Faculty Startup Policy

In a first of its kind initiative, CUSAT becomes the first university in Kerala to initiate a policy to let its faculty members launch their own startups in their respective research domains. According to the new Faculty Startup and Entrepreneurship Policy approved by the Syndicate in April, teachers can start their own technology ventures while in service. The policy is framed in line with the MHRD guidelines and the best practices followed by various IITs and premier global Universities. The initiative will give a big boost to the university centric startup ecosystem, motivating teachers and research scholars to convert their research work into useful services that would benefit society.

Under the policy, product development and commercialisation as well as participating and nurturing of startups will now be added as part of duties of a faculty in CUSAT and will be given due weightage during the faculty's annual appraisal and promotion. An Innovation & Entrepreneurship Committee (I&E Committee) consisting of experts from the industry and academia will scrutinise the applications from the faculty members for starting their own ventures. On approval of the application, CUSATECH FOUNDATION, a Section 8 company formed by CUSAT to promote innovation and entrepreneurship, will sign an MoU with the startup about the involvement of the faculty and ownership of equity.

20% from the equity given to a CUSAT faculty by the startup, has to be given to CUSATECH Foundation, which will become a co-owner in the startup. The faculty are allowed to spend up to 20% of their working hours on their start-up activities in a non-executive role without any change in their teaching responsibilities. They can also avail sabbatical leave up to one year to work on their start-up activities in an executive role.

Accreditation of All 7 B.Tech Programmes Celebrated

VICE CHANCELLOR DR. K N MADHUSOODANAN APPRECIATING SCHOOL OF ENGINEERING PRINCIPAL DR. DIPAK KUMAR SAHOO

"Constant interaction and engagement with industries should be ensured to stay competent globally and enhance problem solving skills," observed Dr. K N Madhusoodanan, Vice Chancellor, as the University celebrated the accreditation by National Board of Accreditation (NBA) under the Tier-1 category to all its seven B.Tech programmes, at the School of Engineering (SOE).

"Recognition like these would help gain an international platform for engineering products and services and inspire everyone to work harder and closely with people around," the Vice Chancellor added.

At the event organised to celebrate the achievement, Dr. P G Sankaran, Pro-Vice Chancellor, that research in enginnering should be more active in SoE to maintain excellence. He also noted that it's a time of pride and joy for the entire University community. Dr. Meera V, Registrar, Dr. Dipak Kumar Sahoo, Principal, SoE, Dr. Sasi Gopalan, Member Syndicate & Head, Department of Mathematics, CUSAT, Dr. Narayanan Namboothiri. V N, Dean, Faculty of Engineering, CUSAT, Joju Ignatius, vice president, PTA, and Padmakumar R, president, SoE Alumni Association, spoke on the occasion.

University Breaks into Top 40 in NIRF Ranking 2023

CUSAT has further improved its position among the top Universities in the country. As per the National Institutional Ranking Framework (NIRF) Ranking 2023, CUSAT is ranked at 37 in India, an improvement of 4 positions from its last rank of 41.

National Institutional Ranking Framework (NIRF) ranks higher education institutions in the country. The NIRF ranking, done by The Ministry of Education through National Board of Accreditation, is the most authentic and respected ranking of educational institutions in the country. The NIRF provides for ranking of institutions in five broad generic groups of parameters, namely: i) Teaching, Learning and Resources; ii) Research and Professional Practice; iii) Graduation Outcome; iv) Outreach and Inclusivity; and v) Perception. 8686 institutions participated in this year's ranking exercise. CUSAT has improved its score across all ranking parameters. Significant improvement is seen in the scores of Teaching, Learning & Resources and Research and Professional Practice.

CUSAT's ascent to the 37th rank in NIRF ranking not only underscore its academic prominence but also highlights its unwavering dedication to providing quality education and fostering an inclusive learning environment.

CUSAT has initiated a range of quality improvement measures during the last few years including recruitment of new faculty, timely publication of results, launching new programmes, industry collaboration, up gradation of research facility etc.

All these have resulted in overall improvement across various parameters including research projects, publication and student placements.

CUSAT has active collaboration with leading industries and top universities across the globe, forging strong partnerships and creating robust placement opportunities for students.

NBA Accreditation for Department of Ship Technology

The Department of Ship Technology was in March accorded accreditation by National Board of Accreditation (NBA) from June 2022 upto June 2025. Naval Architecture Course in Ship Technology is the first course to be recognised by NBA in Tier 1 Naval Architecture Graduate Institutes in India.

Two years ago, a ship technology graduate who was looking for a job as a surveyor responsible for ship safety in Class NK, an international ship classification society, had to move from Kuwait to look for a job as the educational institution where he had completed his B.Tech degree lacked accreditation under the Washington Accord.

Foreseeing the possibility of such problems in future, the Department of Ship Technology voluntarily applied for NBA accreditation.

First ICSI Gurushreshtha Award for School of Legal Studies Faculty

Dr. Preetha. S, Assistant Professor, School of Legal Studies, was on January 25 adjudged a Runner up from Law category for the national Award of Academic Excellence in First ICSI Gurushreshtha Awards 2022, Instituted by the institute of Company Secretaries of India. The award is instituted to honour the lectures/Professors/ Faculties across India who have, through their commitment, contributed immensely to improve the quality of Commerce/Finance Education at College/University level and have augmented the lives of their students.

Dr. Preetha S graduated from Government Law College, Ernakulam, MG University, Kerala and did her masters in law with gold medal from School of Legal Studies CUSAT. She completed her Ph.D with UGC junior research Fellowship on the topic 'Accountability of Corporate Managers: Role of Criminal Sanctions', from School of Legal Studies.

She has published several research articles and has presented several papers at International, National and State level Seminars and Conferences. She has delivered expert lectures on criminal law and corporate laws particularly on corporate finance, Corporate Governance, Mergers and Acquisitions, Start Ups and Securities Laws.

Defence Ministry Honour for Emeritus Professor

Dr. P Krishnan Kutti, Emeritus Professor, Department of Ship Technology, Cochin University of Science and Technology, was honoured with 'Outstanding Achievement Award' for his contribution in the field of research for Defence Research and Development Organisation (DRDO). The award was presented to him by Union Defence Minister Rajnath Singh at a function held in New Delhi on May 25. Dr. P Krishnan Kutti is also the Chairman of the All India Hydro Dynamics Panel of the Naval Research Bureau, Ministry of Defence.

Mayur Sathe Wins Medal in Taekwondo National Championship

Mayur Sathe, PhD student at the University, won bronze medals in individual sparring and pattern competition at the 37th International Tennis Federation (ITFA) National Championship held at Thyagaraja Auditorium, New Delhi. In the championship where around 1000 contestants from 25 states participated, Kerala bagged 7 gold, 6 silver and 10 bronze medals and secured the third position. The states of Delhi and Karnataka bagged the first and second positions respectively. Kochi DCP Sasidharan IPS felicitated the winners.

SCHOOL OF ENGINEERING, CUSAT, UNDER THE AEGIS OF NSS CONDUCTED PRANA, A BLOOD DONATION CAMP, IN WHICH UNIVERSITY STAFF AND STUDENTS DONATED 65 UNITS OF BLOOD. MORE THAN 100 STUDENTS PARTICIPATED IN THE PROGRAMME, WHICH WAS LED BY NSS COORDINATOR DR. HARIKRISHNAN S.

Six from University Secure Awards at Kerala Science Congress

Six students and delegates from the University bagged awards at the recent Kerala Science Congress held at Mar Baselios Christian College of Engineering and Technology, Kuttikkanam, Idukki, in February.

Bijina V, Deepa Sebastian, Sneha K K, Alanka Thomas, Dr. Sreeja Narayanan, Anjali S Mohan received the awards for their presentation.

The Kerala Science Congress is an annual event conducted by the Kerala State Council for Science, Technology & Environment, provides a platform for young researchers, academicians, technologists and others across the State and elsewhere to discuss, exchange and share their research findings and technologies developed, relevant to the State of Kerala.The co-organisers of 35th Kerala Science Congress was Kerala Forest Research Institute (KFRI) Peechi and Institute of Climate Change Studies (ICCS), Kottayam.

BIJINA V, research scholar, Department of Polymer Science & Rubber Technology, Cochin University of Science and Technology, working under the guidance of Prof. Honey John won the best oral presentation award in the student category under Engineering and Technology. The topic of the paper was 'Eco-friendly sustainable green tyre tread compound with high wet grip, low rolling resistance, and low heat build-up characteristics'.

DEEPA SEBASTIAN, research scholar, Department of Applied Chemistry, under supervising guide, Dr. Kala R, received the best oral presentation award in the student category under Chemical sciences. Research paper work presented was 'The effective use of biocompatible silicon quantum dot as a fluorescent immunoassay probe for the sensitive detection of C-reactive protein antigen in aqueous media is investigated'.

ALANKA THOMAS, research scholar from the Department of Mathematics received the best oral presentation award in the Scientist category under Mathematical & Statistical Sciences. The topic of presentation was 'Semisimplicity of Twisted Group Rings And Generalised Maschke's Theorem'.

DR. SREEJA NARAYANAN from the Department of Biotechnology, has received the best oral presentation award in Biotechnology under Scientist Category for the study on 'Immune modulatory particle-based innovative strategies for cancer immunotherapy'.

Laurels for SoE Student's Startup Venture

THOMAS JOHN

The stall 'Innovative Technologies Integrated', a start-up venture of Thomas John, a part-time research student in the School of Engineering, received the award for the best stall in the start-up category at the National Science Expo held in conjunction with the 35th Science Congress in February. Alkali-activated precast concrete products manufactured by recycling industrial by-products and waste materials were showcased at the stall. The research is being conducted under the supervision of Dr. Roy M Thomas.

SNEHA K K, research scholar, Department of Mathematics, presented the paper 'Normal categories of semigroup of order-preserving transformations on a finite chain' in the oral session under Mathematical & Statistical Science which received the best oral presentation award in the Student category.

ANJALI S MOHAN, Department of Marine Biology Microbiology and Biochemistry, under Dr. Rosamma Philip received the best oral presentation award in the student category in subject area of Agriculture and Food Sciences. Title of the presentation was 'Mangrove derived endophytic actinomycetes for plant growth promotion, protection and agro waste transformation'.

Young Researchers Should Create a Knowledge Economy to Benefit Society: Minister R Bindu

"No researcher should withdraw from the research field without financial or social support,"said R Bindu, Minister of Higher Education and Social Justice. The Minister was speaking while distributing the awards of Distinguished Young Faculty and Distinguished Researcher Awards instituted by the University for young researchers on April 11. The minister said, "Young researchers should create a knowledge economy that will benefit society." She added that the Higher Education Council is developing the facility to bring together digital services of all university libraries.

The Distinguished Young Faculty Awards 2022 were received by Dr. Judy M V, Professor, Department of Computer Applications and Dr. Senoy Thomas, Assistant Professor, Department of Physics. Ramya M, Research Scholar at International School of Photonics, has been awarded the Distinguished Researcher Award 2022. Minister Dr. R Bindu delivered the keynote address and felicitated Dr. K Girish Kumar, Director, Internal Quality Assurance Cell, who is retiring from university service this month. The Distinguished Young Faculty and Distinguished Researcher Awards were instituted by Cochin University of Science and Technology using the prize money of the Chancellor's Award instituted by the state government for the best universities.

The award is given every year to the outstanding young faculty and research students of the university in recognition of their exemplary research work. The award selection team comprises experts in the field of academic research. The Distinguished Young Faculty Award carries a prize money of ₹30,000/- and a citation. The Distinguished Researcher Award carries a prize money of ₹20,000/- and a citation.

Dr. K N Madhusoodanan,Vice Chancellor, Dr. P G Sankaran, Pro-Vice Chancellor, Dr. Meera V, Registrar, Dr. Sasi Gopalan, Member Syndicate and Head of the Department of Mathematics, spoke.


DR. SENOY THOMAS


DR. JUDY M V


RAMYA M

More than 640 Students from University Secure Campus Placement

The University has created a record in campus placements as 640 final year students from various courses secured jobs in high-profile companies this year. A steep hike is witnessed in the number of placements this year as more IT companies and core companies recruited students from the University on higher pay packages compared to last year. The highest pay of this placement season stands at ₹25 lakh per annum, and the average pay package is ₹4.9 lakh. Students from the University were recruited in more than 150 companies, including TCS, Infosys, Wipro, IBM, Amazon, and Byjus.

TCS, Cognizant and L&T topped the list of recruiters from University campus. The major companies that recruited students from the campus include CISCO, INFOSYS, TCS, SAP, INCTURE, Ernst & Young, IBM, SOTI, ZIFO, Wipro, Zensar, PWC, Matrimony, MRF, CEAT, Apollo Tyres, UST, L&T, Reliance, TATA Project, Tech Mahindra, Cairn Oil, Benz (Daimler), Cognizant, Vedanta, HDFC Bank, IDBI bank, Federal Bank, Indian Oil Corporation Ltd, Haldia Refinery, IBS, TATA ELXI, Oracle, Mitsogo, Veritas, Amazon, Sony India, Byjus, UNISYS, Nokia, Runaya Refinery, Indian Oil Adani Gas, Oil India etc.

Dr. Aneesh K N Attends World Hindi Symposium at Fiji

Dr. Aneesh K N, Assistant Professor, Department of Hindi, was honoured with a special invitation to participate in World Hindi Symposium, which was held in Fiji from February 15 to 17. Nominated by the Union Ministry of External Affairs, Dr. Aneesh presented a paper and spoke at the three-day Symposium, which was inaugurated by Union External Affairs Minister S Jaishankar and attended by around 300 academics, experts and Hindi writers.

CUSAT, Niigata University Sign MoU

On July 14, CUSAT signed a Memorandum of Understanding (MoU) to partner in an inter-university exchange programme organised by Niigata University, Japan, as part of human resource development in field science in the Indo-Pacific region. As part of the MoU, three students from Cusat's Department of Marine Geology and Geophysics and one from the Department of Marine Biology are will participate in field studies in Japan. Three students from the Department of Marine Biology and teacher Dr. Priya-ja got an opportunity to visit Japan at the expense of the Japan Science and Technology Agency (JSTA).

Conceived by Niigata University with the idea of sustainable earth in mind, the programme has Dr. Ratheesh Kumar, Assistant Professor, Department of Marine Geology and Geophysics, and Dr. Mohammad Hatha, Senior Professor, Department of Marine Biology, as the academic coordinators. Indian Institute of Science, IIT Roorkee, IIT Kanpur and IIST Thiruvananthapuram are also part of this programme.

RINA International Award for Ship Technology Students

ABHINAV T S

RAKESH M S

Two students at the Department of Ship Technology were honoured with the 2022 'Student Naval Architect' award instituted by the Royal Institution of Naval Architects (RINA), an international association of naval architects based in London since 1861.

Abhinav T S, a student of B.Tech Naval Architecture and Shipbuilding, and Rakesh M S, a final year student of M.Tech Computer Aided Structural Analysis and Design, were honoured in February with a citation and a prize of 100 British pounds by Chris Boyd (London), Chief Executive of RINA at a function presided by Dr. P K Satheesh Babu., Head of the Department of Ship Technology. The award is instituted for academic excellence in the field of Naval Architecture.

LikhDhi System to Detect Handwriting Disability Brings Home a Patent

Dr. Santosh Kumar. M B, Associate Professor, Division of Information Technology, School of Engineering, and Sangeetha Chandran, Research Scholar, Department of Computer Applications and Principal Investigator of the Women Scientist Scheme (WOS-A) project under the Department of Science and Technology (DST), were granted an Indian Patent for their invention, titled System to detect handwriting disability and thereof, on January 4.

The novel invention has been named, in short, 'LikhDhi'. 'Likh' means 'writing' in Malayalam, and 'Dhi' means 'intelligence' in Sanskrit.

DR. SANTOSH KUMAR M B

SANGEETHA CHANDRAN

The invention relates to the early detection of dysgraphia (a handwriting disability) in school-going children. This technology has significance in inclusive education and neuro developmental areas. A child with dysgraphia experiences a significant writing disorder and impaired handwriting, especially in languages with complex script and structured writing like Malayalam. The system screens students for dysgraphia based on school grade and age. The design of this technology combines artificial intelligence, digital language bio-markers, and natural language processing. This invention will be a breakthrough in the field of inclusive education and will aid schools, special educators, and parents in the early assessment of dysgraphia. This technique can be extended to other regional languages in future.

PS&RT Scientists Develop Electricity from Residual Movements

In March, scientists at the University developed a technology to generate electricity from unused movements. The nanogenerator device working using the electricity from movements was developed by the innovative nanotechnology of creating links between two different polymer materials. The research was carried out by the Department of Polymer Science and Rubber Technology, in collaboration with Bolton University, London and RAK Academic Centre, UAE. University research scholar Neethu T M Balakrishnan, Bolton University professor Jikui Luo and UAE RAK Academic Centre research scholar Shimna Shafeek carried out the work under the supervision of Prof. Prasanth Raghavan, Head of the Department of Polymer Science and Rubber Technology.

NEETHU T M BALAKRISHNAN

PROF. PRASANTH RAGHAVAN

During the initial stage of research, thousands of LED bulbs, torches and digital watches were powered and operated using this nanogenerator.

₹65 Lakh SERB Grant for Physics Department

The Department of Physics received a research grant of ₹65 lakh from the Science and Engineering Research Board (SERB), Government of India. Dr. Riju C Issac, Associate Professor, is the chief investigator of the project. The grant will be utilised to produce high temperature plasma, the fourth state of matter, using a femtosecond pulsed laser tightly focused on solids and to unravel the mysteries that occur in the early stages of its evolution through transient absorption spectroscopy. The femtosecond laser available at the University is capable of producing plasma with temperatures of hundreds of thousands of kelvin for a very short time. High temperature phase of the plasma will last only for a short time – less than one in a billionth of a second.

The main objective of the project will be to develop a diagnostic system that could be used in even higher temperature plasmas, including systems like inertial fusion.

Marine Sciences Dean Assumes Office as Kannur University Vice Chancellor

Dr. S Bijoy Nandan, Senior Professor, Department of Marine Biology, Microbiology and Biochemistry, took charge as the new Vice Chancellor of Kannur University. A member of CUSAT's Syndicate and Senate, he is also the Dean of the Faculty of Marine Sciences at CUSAT.

A distinguished environmentalist, he has 29 years of academic administration, research and teaching experience. New species of deep sea wood boring mollusc Xylophaga nandani & estuarine crab Aniptumnus bijoyi named in his honour.

His areas of expertise include Marine Biology & Pollution, Climate Science & Polar Biology. Recipient of Jawaharlal Nehru Award (ICAR) for outstanding doctoral thesis in India (1993), UNESCO Fellowship (2008), Recognition award of ZSI (2008), U.S Fulbright Fellowship (2013-2014), and

DR. S BIJOY NANDAN

UGC-BSR Mid-Career Award (2021). Completed or ongoing 37 research & consultancy projects as PI funded by national and international agencies. Several international, national collaborations & MoU for academic growth and enhancement achieved. 152 full length papers, 64 books/book chapters, 136 proceedings and 29 PhDs to his credit.

Breakthrough in Treatment of Parkinson's Disease

PRABHA PRAKASH

DR. BABY CHAKRAPANI

An Indian patent IN 419378 was awarded to the University on January 27 for the work of Dr. Baby Chakrapani., Director of Centre for Neuroscience, and research student Prabha Prakash in developing a technology and growth media formulation to differentiate blood cells into dopaminergic neurons. The patent filing was facilitated by the IPR Facilitation Cell at the Inter University Centre for IPR Studies (IUCIPRS).

The patent was granted within a period of 8 months from the date of filing. According to the method of the present invention, approximately 90% of peripheral blood mononuclear cells can be converted into dopaminergic neurons. Cells developed in this way could be highly effective in transplantation/ regenerative therapy for Parkinson's disease, which results from the loss of dopaminergic cells. Because these cells can be extracted from the blood of the Parkinson's patient itself and used, the tissue rejection that occurs with normal transplantation therapy does not occur. This increases the efficacy of the treatment and reduces the cost associated with the transplantation treatment.

₹28 lakh Grant for Computer Applications Researcher for Detecting Brain Structural Abnormalities in Kids

DR. TINU VARGHESE

Dr. Tinu Varghese, Department of Computer Applications and Principal Investigator of the Women Scientist Scheme (WOS-A), has been granted ₹28.74 lakh for a project under the Department of Science and Technology (DST). The project is titled 'Early phase of brain structural abnormalities in children with autism spectrum disorder using neuroimaging methods'. The project will receive a grant of ₹28.74 lakh for three years. Dr. Sabu M K, Professor, Department of Computer Applications, is her mentor in the project.

The main objective of this study is to investigate Structural and functional imaging and machine learning techniques for measuring the size and shape of brain structures of children without age-related defects. The secondary objective of this study is to identify and assess the severity of the disease using machine learning techniques from MRI data. The project will help the parents of children on autistic spectrum to get an accurate diagnosis of the condition.

University Researchers Bag Nearly ₹1.25 Crore as KSCSTE Grant

As many as eight faculty members from various Departments, Schools and Centres of the University received grants worth over ₹1.25 crore from Kerala State Council for Science, Technology and Environment (KSCSTE) when it declared the grants for 2023 in January.

The work of Dr. Baby Chakrapani P S, Director, Centre for Neuroscience, along with co-investigator Dr. Unnikrishnan Sivan, DHR-NRI faculty, was awarded a fellowship worth ₹16 lakh for three years. The team is awarded a fellowship to study how neurotrophic factors, which are peptides or small proteins, can aid in the enhancement of memory and learning by intensifying the neuroplasticity of the brain.

Dr. Sreekanth P M from Department of Biotechnology received a grant of ₹16 lakh for two years to develop strategies to conserve the phenology-specific genetic structure research potential of Kandelia candel, an endangered and endemic viviparous mangrove species dominant in Kannur district. Dr. V B Sreekumar is the co-principal investigator of the project.

Dr. Vishnu Kumar S from Department of Computer Applications received ₹12 lakh as grant for three years for the project on early detection of autism in children using computer technology.

Dr. Manoj T Isaac from Department of Ship Technology received a grant of ₹20 lakh for three years for the project using Computational Fluid Dynamics (CFD), to devise an optimised design of AUV capable of long-range underwater travel with a ducted propeller.


DR. AJIL KOTTAYIL

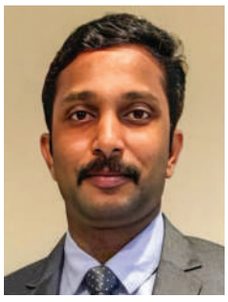

DR. KRISHNA MOHAN K S


DR. MANOJ T ISAAC


DR. BABY CHAKRAPANI P S


DR. SREEKANTH P M


DR. SWAPNA P ANTONY


DR. VISHNU KUMAR S


DR. ABHITHA K

The design would be capable of launching from the torpedo tubes of submarines. Mohammed Ashiqu, Assistant Professor, Department of Ship Technology, and Dr. Senthil Prakash M N, Professor, Division of Mechanical Engineering (CUCEK) are the co-investigators of the project.

The project 'Characteristics and Long-term Changes of Mesoscale Convective Cloud System in Monsoon Region' has been granted for three years to Dr. Ajil Kottayil from ACARR. The project also includes K Satheesan and Dr. S Abhilash as co-principal investigators.

Dr. Abhitha K, Assistant Professor, Department Polymer Science and Rubber Technology, received a grant of ₹17 lakh for three years for her project on 'Menstrual Cup for plastic free periods and environment'. This project focuses on the replacement of silicone rubber with natural rubber (NR) and making it available for ordinary people at a low cost. Dr. Sarita G Bhat, Professor, Department of Biotechnology is the co-investigator of the project.

KERALA STATE COUNCIL FOR SCIENCE, TECHNOLOGY AND ENVIRONMENT (KSCSTE) DECLARED THE GRANTS IN JANUARY

Dr. Swapna P Antony, Assistant Professor, Department of Marine Biology, Microbiology and Biochemistry, bagged ₹15 lakh for her project on 'Antimicrobial Peptides in aquaculture organisms: Discovery and Applications'. Dr. Sajeevan T P, Associate Professor, NCAAH, is the co-investigator.

Dr. Krishna Mohan K S, Assistant Professor, School of Environmental Studies, received a grant of ₹15 lakh for three years for his project on 'The Impacts of Climate change on the Genesis and Intensification of the North Indian Ocean Low Pressure Systems.' Dr. Sreekala P P, Assistant Professor, Department of Atmospheric Sciences is the co-investigator of the project.

Rajeev Chandrasekhar Flags off Nationwide Roadshow on Digital India RISC-V (DIR-V) Programme

"Our prime focus is to enable the growth of the DIR-V ecosystem, aiming for India to emerge as a leading nation in innovating around the DIR-V family of chips and systems. This program will play a pivotal role in realizing Prime Minister Narendra Modi ji's vision of creating and adopting open-source technologies. Start-ups, students, and entrepreneurs will play crucial roles in developing DIR-V-based chips and systems, ultimately contributing to India becoming a Semiconductor Nation,", said Rajeev Chandrasekhar Union Minister of State for Skill Development & Entrepreneurship and Electronics & IT.

He was flagging off the Nationwide Roadshow on Digital India RISC-V (DIR-V) Programme at CUSAT on November 17. This roadshow is being jointly organized by C-DAC, IEEE India Council and Ministry of Electronics & IT (MeitY) on 17-18 November 2023, with participation from global leaders in the RISC-V design area. Dr. P G Sankaran, Vice Chancellor, Dr. Dipak Kumar Sahoo, Principal, School of Engineering, Faculty Members and students participated.

Dr. Zakkariya Bags ISTD Fellowship

India's oldest professional body of HR professionals The Indian Society for Training and Development's (ISTD) fellowship was secured by Dr. K A Zakkariya, Professor, School of Management Studies and Director of DDUKK.

He was selected for the fellowship considering his contributions in the fields of human resource development and academic and research fields. He has held many positions, such as Member of the Syndicate and Senate, CUSAT, Kerala Higher Education Council Governing Council Member, Director of the Aligarh University Malappuram Centre, and Chairman of the ISTD Kochi Chapter. The award was presented at the closing ceremony of ISTD's 50th National Convention on December 16 in Jaipur.

Financial Aid Distribution for Farmers Made Easy Now

DR. SANTOSH KUMAR M B

ALFIN ABRAHAM

Dr. Santosh Kumar. M B, associate professor, School of Engineering, and Alfin Abraham, Researcher in the University and Assistant professor, Amal Jyothi Engineering College Kanjirapally, received an Indian patent in February for their innovation titled 'Financial aid distribution system based on farm data using blockchain and method for Policy Design through data analytics (FAD-PD)' for financial aid distribution for farmers based on the losses they suffer. FAD-PD proposes a method for policy design using the collected farm data through data analytics. The decentralised transparent system can be used for distributing the aid for farmers based on the calculated losses.

Geojit to Set up Centre of Excellence in Sustainability

Geojit Financial Services Ltd, a leading Indian investment services company, established a centre of excellence in Sustainability at CUSAT. Theproposal to set up the centre, named Geojit-CUSAT Centre Of Sustainability Studies (GCCOSS), approved by the University Syndicate.

In tune with Geojit's CSR ideology to innovatively use and optimise resources to strengthen the weakest links of the societal strata, to draw them into the cycle of growth, development and empowerment, the centre will undertake activities towards the well-being of the people, sustainability of the planet, and sustainable economic profit. Geojit stands committed to providing an endowment of ₹5 crore over a period of 4 years.

This is one of the biggest industry-academia partnerships in the state of Kerala. The Centre shall have six focus areas, namely Research, Academics, Consulting, Capacity Building, Innovation, and Certifications. It will strive to be an autonomous hub for creating high-quality scientists and entrepreneurs while engaging in global collaborations to create the best research output, academic rigour, and technical innovations.

The Centre will become a Nodal Centre for initiating and coordinating such cross-department research works integrating scientific, technical, and social sciences knowledge. GCCOSS proposes to develop and implement programmes focused on sustainability and specialised courses with support from technical and scientific departments.

KSCSTE Postdoc Fellowship for ACARR Researcher

Dr. Dhanya Joseph, researcher in Advanced Centre for Atmospheric Radar Research (ACARR), bagged the prestigious KSCSTE Postdoc Fellowship for 2023. This fellowship is funded by Kerala State Council for Science, Technology and Environment (KSCSTE). The programme aims to encourage PhD holders to pursue further research and to develop career as scientist.

Dr. Dhanya will receive the fellowship for a maximum of two years together with a research grant of ₹75,000/- per annum. The project aims at Projections of Sea Level Rise and Storm Surges along Kerala Coast based on Coupled Model Intercomparison Project Phase 6 (CMIP6) Models with Dr. M G Manoj, Scientist–D at ACARR as the Mentor.

Dr. Dhanya Joseph, wife of Dr. Rojith Girindran, Research Scientist, Resinnov Blue Project, FERI Trust, CIFT, Cochin,, is the daughter of K T Joseph and Philomina Joseph, Kalarickal house, Iritty, Kannur.

Three Engineering Faculty Develop Portable Agricultural Network System

DR. SANTOSH KUMAR M B

DR. SUNIL KUMAR N

DR. KANNAN BALAKRISHNAN

An Indian Patent IN 421972 has been granted in the name of the University for developing a Portable Agricultural Network System, which is a stable, durable and cost effective system for preventing the damage to banana plants in extremely harsh weather conditions in a farm or an agricultural land. The patent is an outcome of the research carried out by the inventors, Dr. Santosh Kumar M B, Associate Professor, School of Engineering, Dr. Kannan Balakrishnan, Emeritus Professor, Department of Computer Applications and Dr. Sunil Kumar N, Professor, Cochin University College of Engineering Kuttanad. The patent was facilitated by the IPR facilitation cell at Inter University Centre for IPR Studies (IUCIPRS).

SMS Faculty Awarded ₹10 Lakh Worth ICSSR Major Research Project

In March, Dr. Devi Soumyaja, Assistant Professor at School of Management Studies, was awarded Indian Council for Social Science Research (ICSSR) Major research project 2022-23, worth ₹10 lakh on the topic, 'Understanding the motivators of moonlighting intention among IT sector employees'.

Moonlighting, which means working more than one job simultaneously, in exchange for compensation, especially in the IT sector, has recently been a widely discussed topic.

This study could make significant contributions in the context that the Indian IT sector has been divided on its opinion on moonlighting.

One Syndicate Member, 5 Faculty Feature Among World's Top 3% Scientists

Five faculty members of CUSAT featured in the 2023 list of the best 3% scientists in the world released by Stanford University in America.

Dr. A A Muhammad Hatha, Head of the Department, Marine Biology and Director, School of Marine Sciences, Dr. Rosamma Philip, UGC BSR Faculty, Dr. P Mohanan, Co-ordinator Advanced Centre for Atmospheric Radar Research & Rtd. Faculty, Department of Electronics, Dr. M R Anantharaman UGC BSR Faculty, Department of Physics and Dr. V P N Namboori, Visiting Professor, Department of Photonics made it to the list, adding to the laurels of CUSAT

Dr. Sreejith P S, Syndicate Member, featured in the 2023 list of the best 2% scientists in the world released by Stanford University in America. This feat was achieved in the engineering department. He has made it to the list three years in a row. Dr. Sreejith was the Principal at School of Engineering, CUCEK. He has worked as the IHRD Director and Dean of Faculty of Engineering at CUSAT. Presently, he is the Principal of Rajagiri School of Engineering & Technology, Kakkanad.

DR. SREEJITH P S

DR. M R ANANTHARAMAN

DR. A A MUHAMMAD HATHA

DR. P MOHANAN

DR. ROSAMMA PHILIP

DR. V P N NAMBOORI

Dr. Honey John Bags ₹30 Lakh DST-SERB Grant

Dr. Honey John, Professor, Department of Polymer Science and Rubber Technology, and Hon. Director, Inter University Centre for Nanomaterials and Devices (IUCND), was in January granted a funded project of ₹30,40,314/- by DST (SERB). Dr. Saji K J, Director, International School of Photonics is a co-investigator of the project. The project titled 'Wearable wireless triboelectric nanogenerator sensor for respiratory rate and sleep monitoring' is the third DST-SERB project of Dr. Honey John.

PROF. HONEY JOHN

The development of wireless wearable sensor that comprises biodegradable polymers for respiratory rate and sleep monitoring is of significant interest in the times of COVID -19. Since the virus causing COVID-19 disease affects the lower respiratory systems, breathing issues are found to be common for people with COVID. Another major problem faced by individuals affected by COVID is sleep disorders. The research in this project proposed to develop a wireless wearable sensor-based on triboelectric nanogenerator to detect and evaluate respiration rate and sleep quality in patients with respiratory and related sleep disorder issues.

Dr. Pramod Gopinath Awarded KAS Fellowship

Dr. Pramod Gopinath, Professor, Department of Photonics, won a fellowship from the Kerala Academy of Sciences (KAS), a professional body of scientists, academics, doctors, and technologists in Kerala. Arif Mohammad Khan, Governor awarded the fellowship to Dr. Pramod at a function held at the CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram.

Biotechnology Scientists Awarded ₹3.5 Lakh Startup Grant for Probiotic Health Mix for Kids

An innovative initiative to develop probiotic health mix for children has been awarded a grant by Kerala Startup Mission's Research Innovation Programme for Women Startups in partnership with Sahrdaya College of Engineering and Technology. The grant was awarded in March to Dr. Sarita G Bhat, Professor, Former Head of the Department and Dr. Bindya E S, Post-Doctoral Scientist, of the Department of Biotechnology, CUSAT.

DR. SARITA G BHAT

DR. BINDYA E S

The grant of ₹3.50 lakh is designated to encourage women entrepreneurs to carry out their proposed research. The startup will be run in cooperation with the Centre for Innovation, Technology Transfer & Industrial Collaboration (CITTIC).

The startup aims to develop a flavoured health mix incorporated with bacteria with probiotic qualities. The drink improves gastrointestinal health and immunity in children, according to the researchers.

The Research Innovation Programme, conducted in line with the motto 'research leading to entrepreneurship' is aimed at women empowerment, provides financial support for budding entrepreneurs.

International Management Conference at SMS

School of Management Studies on March 29 organised a three-day International Conference on Management & Technology 2023 focusing on the topics Creativity, innovation, & Change: Roadmap to Sustainable Business (SMSICMAT 2023).

The programme was inaugurated by Dr. K N Madhusoodanan, Vice Chancellor, CUSAT. The aim of the conference was to discuss the emerging frameworks and paradigms of management and technology that design innovative business ideas during uncertain times.

It is also a platform for academicians, researchers and practitioners around the globe to share their views, experiences and research on how the business tackles the challenges of sustainability during crisis times and to suggest proactive business models that warrant more inclusive and sustainable growth.

Ship Technology Researchers Bag ₹3.3 Crore Project

ARVIND K R

DR. RAJESH P NAIR

MOHAMMAD ASHIQ

The Union Ministry of Electronics and Information Technology in January approved the sub-project submitted by the researchers of the Department of Ship Technology under the third phase of the National Power Electronics Technology Mission (NaMPET). The project 'Electric Propulsion System for Energy Efficient Houseboats' submitted by CUSAT and Centre for Development in Advanced Computing (C-DAC) worth ₹331.17 lakh. Out of this, ₹22.86 lakh was earmarked for the Department of Ship Technology for design and water testing of electric propulsion systems for houseboats.

Sigi C Joseph, C-DAC Scientist, Dr. Rajesh P Nair, Department of Ship Technology are the chief researchers of the project. Assistant Professors in the Department of Ship Technology, Arvind K. R and Mohammad Ashiq are co-investigators. Dr. C B Sudhir, Kerala Maritime Board approved consultant and Adjunct Faculty of Ship Technology is the technical advisor of the project.

It is hoped that this project will be a big step in the field of sustainable technology to make houseboats, which are an indispensable part of Kerala's tourism sector, free from carbon pollution.

The design of the houseboats will be in such a way that solar energy can also be used. The project consists of feasibility study, design and construction of two/three electric houseboats.

₹1.25 crore Grant for Dr. Santhini P V

Dr. Santhini Pulikkal Veettil, National Centre for Aquatic Animal Health, was awarded Dr. Ramalingaswami Re-entry Fellowship instituted by the Department of Biotechnology. The fellowship worth ₹1.25 crore is granted for a five-year project implemented in collaboration with Dr. Sajeevan.T P, Associate Professor, NCAAH.

The Ramalingaswami Fellowship is a project initiated by the Central Government to attract Indian researchers who are doing excellent research abroad to the country and to utilize their services and skills in a way that will benefit their home country. It is equivalent to the post of Assistant Professor in Universities.

Dr.Santhini is working on a project to develop a better sunscreen lotion with no side effects using a chemical substance of the dipyrrolo benzoquinone class, capable of absorbing ultraviolet rays, isolated from a type of fungus under the Aspergillus genus from Marine environment. The chemicals currently used in sunscreen formulations have many drawbacks, including low light stability.

The fellowship is for further research on this subject.

Santhini was awarded this fellowship after three years of post-doctoral research at the University of Leuven, Belgium, and continues her research at the university.

₹18 Lakh SERB Core Research Grant for Mathematics Faculty

DR. SHANKAR P

Dr. Shankar P, assistant Professor, Department of Mathematics, was sanctioned a Core Research Grant of ₹18 lakh instituted by the Science and Engineering Research Board (SERB) for three years. The grant was announced in January for Dr. Shankar's project titled 'Finite Rank and Compact defect operators of Commuting pair of truncated Toeplitz Operators on model spaces'. The total cost of the project is ₹18,30,000 lakh.

The aim of the project is to facilitate mobility of faculty members working in a regular capacity in State Universities/Colleges and in private Academic Institutions to carryout research work in an established public funded central institution such as IITs, IISc, IISERS, National Institutions (NITs, CSIR, ICAR, ICMR labs and other central institutions) and Central Universities, located preferably nearer to the institution where the faculty member is working. Research work will be carried out in such a manner to ensure that the principal investigator continues to work in the host institute as well as his/her parent institute on mutually agreed terms between the principal investigator and Mentor.

MoU for Scholarships Signed by CUSAT, EQS Web Technologies

An MoU was signed between CUSAT and EQS Web Technologies for providing scholarships for girl students as part of their CSR activities. Registrar Dr. Meera V. signed the MoU in presence of Vice Chancellor Dr. P G Sankaran.

EQS is a leading international cloud provider in the areas of corporate compliance, investor relations and ESG and is providing scholarships under their 'Women in Information Technology' scheme. Vinod Anand, Managing Director of EQS, informed that top girl students in CS and IT branches of School of Engineering CUSAT will receive these scholarships. EQS also plans to sponsor hackathons and startup activities in CUSAT.

Principal of SoE, Dr. Dipak Kumar Sahoo lauded the efforts of School of Engineering Alumni Association, who made this MoU possible.

INSPIRE Faculty Fellowship for ACARR Researcher

DR. KAVYA JOHNY

Dr. Kavya Johny, Research Associate in the Thunder Project at the Advanced Centre for Atmospheric Radar Research (ACARR) has bagged the prestigious INSPIRE Faculty Fellowship for the year 2022 instituted by the Department of Science and Technology (DST). Dr. Kavya will receive the fellowship for a maximum of five years together with a research grant of ₹7 lakh per annum. The project aims at exploring the efficiency of Artificial Intelligence in predicting weather extremes over the west coast of India by building a mathematical framework that integrates available data-based models with physics-informed machine learning, with Dr. M G Manoj, Scientist - D at ACARR, CUSAT as the Mentor.

The basic objective of INSPIRE (Innovation in Science Pursuit for Inspired Research) Faculty Fellowship is to provide attractive positions to young achievers for high-quality research and emerge as a leader in future science and technology by developing independent scientific profiles and launching them in fulfilling long term careers.

Dr. Preetham Wins Project under Indo-Taiwan Cooperation

DR. PUNNADATH PREETHAM

Dr. Punnadath Preetham, Associate Professor, Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, was in February awarded with the project under India-Taiwan Programme of Cooperation in Science & Technology 2022 for the project 'Vaccine development for Streptococcus agalactiae and Streptococcus iniae in tilapia and hybrid grouper' in collaboration with Department of Veterinary Medicine, National Pingtung University of Science and Technology, Taiwan. Of the 11 proposals selected which included those of IITs and NITs, CUSAT is the only State University to have won the project.

Dr. Preetham was to execute the project with Dr. Shih-Chu Chen, Department of Veterinary Medicine, National Pingtung University of Science and Technology, Taiwan. The three year project came with a grant of ₹70 lakh.

The project brings together partners from India and Taiwan with a diverse range of expertise relating to Aquatic Vaccine Development who will work collaboratively to prove the novel concept of vaccine delivery for the prevention and protection against fish diseases.

The grant also involves training opportunities for early career researchers, PhD scholars and post-graduation students through this project will be facilitated through lab exchanges between CUSAT and National Pingtung University of Science and Technology, Taiwan.

Marine Biology Student Gets Indo-French Charpak Lab Exchange Fellowship

HARSHITHA E P

On March 25, Harshitha Erangholi Pattalath, second semester student of MSc. Marine Biology at the Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, was selected for a two-month internship at INRAE (French National Research Institute For Agriculture and Environment) for the research project related to antimicrobial resistance.

Charpak lab exchange scholarship is a programme that is designed for Indian students enrolled in an Indian institution at the bachelor's or master's degree levels, planning to undertake a research project at a French laboratory or institution during the summer. The scholarship covers a monthly stipend of 700 Euros for a maximum of two months and a student visa. Dr. Punnadath Preetham E, Associate Professor, Department of Marine Biology, Microbiology and Biochemistry, is Harshitha's mentor.

The fellowship will provide huge exposure to work under the well developed laboratories, under the guidance of experts.

MATCON 2023 at Department of Applied Chemistry

The Department of Applied Chemistry organised an international conference on materials for the millennium (MATCON 2023) that mainly relies on the constructive dissemination of knowledge and research among academicians, scientists and industry.

Eminent academicians and scientists like Prof. Maurizio Prato from Italy, Prof. Frank Wurthner from Germany, Prof. Sumeet Mahajan from UK, Prof. Biju Vasudevan Pillai from Japan, Prof. George Thomas IISER Trivandrum, Prof. Ayan Datta from Indian Association of Cultivation of Sciences, Kolkata, delivered lectures at the conference that was held from January 12 to 14.

School of Industrial Fisheries, Seafood Exporters Association of India Ink MoU

The School of Industrial Fisheries signed an MoU with the Seafood Exporters Association of India (SEAI) on February 2. In addition to the academic and industry support initiatives, the School of Industrial Fisheries will offer R&D support for the seafood exporters consortium in obtaining the Marine Stewardship Council's (MSC) sustainability certification of coastal and deep-sea seafood resources from the Arabian Sea through the MoU. Both parties will join hands to meet the sustainable development goals (SDGs) of Indian fisheries through MSC certification.

DR. S SABU, DIRECTOR, SCHOOL OF INDUSTRIAL FISHERIES, AND A J THARAKAN, MD, AMALGAM FOODS & CHAIRMAN, SEAI CONSORTIUM, SIGNED THE MOU IN THE PRESENCE OF VICE CHANCELLOR DR. K N MADHUSOODANAN

Dr. S Sabu, Director, School of Industrial Fisheries, and A J Tharakan, MD Amalgam foods and Chairman, SEAI Consortium, signed the MoU in the presence of Prof. K N Madhusoodanan, Vice Chancellor of CUSAT at his chamber.

Pro-Vice Chancellor, Prof. P G Sankaran, Registrar Dr. Meera V, IQAC Director, Prof. Gireesh Kumar, Secretary of Seafood Exporters Association of India, Ramakrishna, MSC India head Dr. Ranjith Suseelan, Chairman SSNI-Dr. Sunil K Mohammed, and School of Industrial Fisheries professors Dr. M Harikrishnan, Dr. Mini Sekharan, and Dr. Hareesh N Ramanathan spoke,

Two SoE Students Chosen for Matsue Internship

Two students from the Department of Information Technology, School of Engineering, featured among the five Indians chosen for the prestigious Matsue Internship Programme- 2023.

MUHAMMED AYIMEN ABDUL LATHEEF

ASHWIN ANIL

Muhammed Ayimen Abdul Latheef and Ashwin Anil represented the country in the Lake Nakaumi, Lake Shinji, and Mt. Daisen Indian Internship Programme - 2023 in Japan held from February 4 to 19, 2023 in Matsue City, Shimane Prefecture, Japan.

The annual Internship Programme, supported by Indo-Japan Centre of Excellence, Kerala, is aimed at exposing the students to world-famous Japanese work culture and modern technologies in action. The past five years have seen several students from the School of Engineering gaining selection to the programme in Japan every year.

International Conference on AI & Software Engineering

The Department of Computer Science organised an International Conference on Artificial Intelligence & Software Engineering (ICAISE 2023) on March 15. The theme areas of the conference included Intelligent Computing, Software and Distributed Systems, Devices & Systems and Medical & Health Informatics. Dr. K N Madhusoodanan, Vice Chancellor inaugurated the event. Dr. A KMenon Endowment Scholarships were also distributed.

Ms. Renjitha Radhakrishnan and Suhail Haroon, students of M.Tech Computer Science, received the endowments amounting to ₹40,000 each. Dr. P J Narayanan, Director of IIIT Hyderabad delivered the first Dr. A K Menon Memorial Endowment lecture on digital revolution. He highlighted that artificial intelligence will impact daily life in all areas of society and its progression is accelerating exponentially.

The conference was presided over by Dr. Sumam Mary Idicula, President, Department Alumni Association. Mohanan K, Associate Director, NPOL Kochi, and Dr. Sivanandan Achari, Syndicate Member, CUSAT offered felicitations.

MoU Inked with Maldives National University

DR. MOHAMED SHAREEF, VICE CHANCELLOR, MNU, AND DR. K N MADHUSOODANAN, VICE CHANCELLOR, CUSAT, SIGNING AN MOU AT THE MALDIVES NATIONAL UNIVERSITY.

In January, the University inked a memorandum of understanding (MoU) with Maldives National University (MNU) on academic and research collaborations between the universities.The MoU was signed by MNU Vice Chancellor Dr. Mohamed Shareef and CUSAT Vice Chancellor Dr. K N Madhusoodhanan at a meeting held at the Maldives National University. It deliberated on mutual areas of cooperation and collaboration, especially in the fields of marine sciences, marine research, maritime law, marine engineering, R&D and academic strengthening.

The MoU will also facilitate capacity development of students and staff of both the establishments in terms of knowledge exchange, collaborative technical expertise, initiatives with the support of the Maldives Ministry of Environment, Climate Change and Technology and introducing marine post graduation courses at MNU with the technical and academic support of CUSAT. The MoU was signed in the presence of Dr. Bijoy Nandan, Dean, Faculty of Marine Sciences, CUSAT, and Ms. Aishath Shaheen Ismail, Deputy Vice Chancellor, MNU. A meeting was held with the Deans of Faculties at MNU.

During the two-day visit to the Maldives from January 17 to 18 facilitated by the High Commission of India in Maldives, Dr. Madhusoodanan and the delegation from CUSAT attended meetings with Mr Munu Mahawar, the High Commissioner of India to the Republic of Maldives, S Jaishankar, Minister of External Affairs, Government of India, and Abdullah Shahid, Minister for Foreign Affairs, Maldives, and the officials of the Ministry of Environment, Climate Change and Technology, Maldives. Discussions were held on initiating future academic exchanges and collaborations and mutually beneficial programmes and projects in the field of marine sciences.

Maldives National University Delegation Visits

The Cochin University of Science and Technology(CUSAT) was graced by the presence of Dr. Mohamed Shareef, Vice Chancellor, Maldives National University (MNU), and his delegation as part of the memorandum of understanding (MoU) inked by the universities on academic and research collaborations in the field of marine sciences and maritime engineering.

As part of the two-day visit on March 14 and 15, Dr. Mohamed Shareef, Ms. Aishath Shehenaz Adam, Deputy Vice Chancellor, MNU, and Dr. Aminath Shiyama, Quality Assurance Controller, MNU met CUSAT Vice Chancellor Dr. K N Madhusoodhanan, Pro-

DURING THE DISCUSSIONS, IT WAS DECIDED TO INTRODUCE ACADEMIC PROGRAMMES IN MARINE SCIENCES AND ENGINEERING AT MNU WITH THE COLLABORATION OF CUSAT

Vice Chancellor Dr. P G Sankaran and Registrar Dr. V.Meera and held discussions with the Deans of Marine Sciences, Technology and Engineering, heads of the departments of Marine Biology, Microbiology and Biochemistry, Industrial Fisheries, Ship Technology and Kunjali Marakkar School of Marine Engineering. During the discussions, it was decided to introduce academic programmes in marine sciences and engineering at MNU with the collaboration of CUSAT.

The delegation also visited various departments in the Kalamassery and Lakeside campuses.

CUSAT, Synthite to Establish Centre for Synthetic Biology and Biomanufacturing

Attending the signing of MoU between CUSAT and Synthite Industries to set up C V Jacob Centre for Synthetic Biology and Biomanufacturing (CSB), on February 21, Minister for Industries, Coir and Law, P Rajeeve, extended strong government support to translational technologies and startup collaborations.

"Mechanisms should be in place within academic and research institutions to facilitate transnational interactions and multidisciplinary knowledge which would help improve the quality of research and research output. The government will utilise special funds for capital investment in the special purpose vehicles jointly formed by universities and industry for translating technology," said the minister, who was the chief guest at the event.

Stressing that the state's startup ecosystem requires more support from universities and research institutions, the minister welcomed new ideas from the student and academic community to let Kerala's startup ecosystem thrive. "Kerala is a front runner in the startup scenario, among the states in the country. New products and protocols will improve the product development and R&D capabilities of the state," he added.

In the presidential address, CUSAT Vice Chancellor Dr. K N Madhusoodanan said, " To build a knowledge economy, industrial sector has to join hands with educational research institutes".

The MoU was signed by Aleyamma Jacob, spouse of Late C V Jacob, and Dr. Meera V, Registrar. Aju Jacob, Joint Managing Director, Synthite, unveiled the logo of the CSB. Dr. P G Sankaran, Pro-Vice Chancellor, CUSAT, C J George, MD, Geojit and Member Syndicate, Dr. Ajikumar Parayil, CEO, ManusBio, USA, and Dr. Viju Jacob, Managing Director, Synthite, also spoke at the event.

C V Jacob Centre for Synthetic Biology and Biomanufacturing (CSB), is envisaged as a world-class education, research, and innovation-driven institution named after the founder of Synthite Industries, a renowned manufacturer of over 500 plant-derived flavour and fragrance products.

An amount of ₹20 crore has been initially allocated by Synthite as seed fund to CUSAT for establishing the CSB. The plan is to raise a further amount of ₹100 crore over the next three years. The CSB is expected to explore the possibilities of next-generation sustainable manufacturing of food, agricultural products, chemicals and materials with the collaboration and resource-sharing partnerships between high-calibre scientists and professionals from CUSAT. By propagating disruptive and transformational new technology, the CSB could transform every aspect of life from agriculture to medicine, and address complex, multidimensional problems such as climate change, natural disasters and environmental pollution.

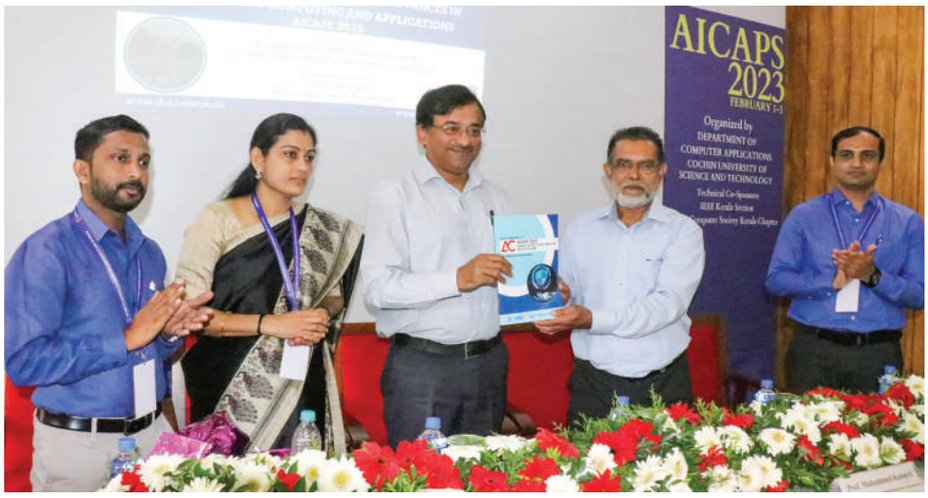
International Workshop on Scientific Computing, Sonar Signal Behaviour Held

A three-day workshop focussing on Scientific Computing & Sonar Signal Behaviouris jointly organised by the Department of Electronics and Naval Research Board, New Delhi was held from January 17 to 19. Inaugurated by Dr. K Ajith Kumar, Director, Naval Physical and Oceanographic Laboratory (NPOL) Kochi, the event saw Dr. V Meera, Registrar, Dr. Supriya M H, Professor and Head, Department of Electronics, CUSAT, Dr. Ashok Kumar Yadav,

Member Secretary, Naval Research Board (NRB), Prof, Karmeshu, Panel Chairman, Scientific Computing, Sh. Mohan P Mathew, Panel chairman, Sonar Signal Behaviour, Dr. Nalesh S., Assistant Professor, CUSAT, in attendance.

A project dissemination on 'Machine Learning models for underwater image enhancement and content analysis,' with a financial assistance of around ₹48 lakhs was presented along with various other projects funded by NRB.

Three-day Conference in Computer Applications Held



A three-day conference titled 'Advances in Intelligent Computing and Applications' was organised by the Department of Computer Applications. The conference held from February 1 to 3 was co-sponsored by the IEEE Kerala Section and IEEE Computer Society Kerala Chapter.

The three-day conference aimed to promote participation among scientists, engineers, technologists, and academics from various disciplines and strengthen cooperative initiatives in the field of intelligent computing.

The event was inaugurated by Prof. Manoj Singh Gaur, Director, IIT Jammu, who emphasised on the need for translational research and innovations for the betterment of society. He commended the efforts of the Department of Computer Applications in organizing the conference.

Prof. Kasim, IEEE Kerala Chair, enlightened the audience about various IEEE sections around the world and discussed the various events by its Kerala Section.

THE CONFERENCE AIMED TO PROMOTE PARTICIPATION AMONG SCIENTISTS, ENGINEERS, TECHNOLOGISTS, AND ACADEMICS FROM VARIOUS DISCIPLINES AND STRENGTHEN COOPERATIVE INITIATIVES IN THE FIELD OF INTELLIGENT COMPUTING

During the presidential address, head of the department and the conference chair, Dr. M V Judy highlighted the relevance of the topic of the conference in the current day scenario. She also commented on intelligent computing and how it is affected by the industrial revolution.

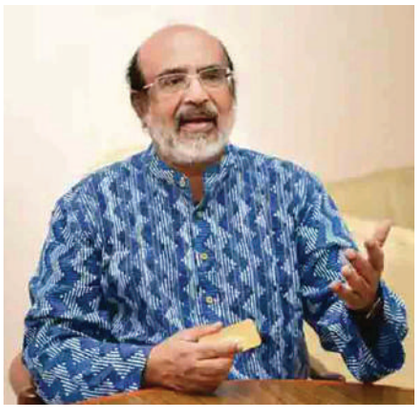
Dr. Vinod P, Technical Programme Committee Chair, provided an overview of the conference and highlighted the relevance of the different tracks in the conference. He also mentioned that the conference received around 230 papers and the acceptance rate of the conference is 21%.

The coordinator of the conference was Dr. Vishnukumar S, Associate Professor, who emphasised that the conference focuses on artificial intelligence and aims to provide a perception of the practical applications of AI in different domains

Dr. Thomas Isaac Calls for Greater Fiscal Autonomy for States

Dr. Thomas Isaac, renowned economist and former Finance Minister of Kerala, emphasised the need for greater fiscal autonomy for states during a one-day conference on the topic 'India's New Fiscal federalism: Emerging Challenges'. Hosted by the Centre for Budget Studies and sponsored by the Institute of Parliamentary Affairs, the conference was held on March 13 at the University.

According to Dr. Isaac, the current system of central transfers and grants to the states is highly inefficient and inadequate. He raised the argument that the states should have greater control over their own revenues and expenditures, which would then enable them to better cater to their own developmental needs.



Dr. Isaac also pointed out that the ongoing COVID-19 pandemic has highlighted the importance of fiscal autonomy for states, as they have been struggling to meet their fiscal requirements due to the fall in tax revenues and increased expenditure on healthcare and welfare measures.

The conference was inaugurated by Dr. K. N Madhusoodanan, Vice Chancellor, and presided over by Dr. Santhosh Kumar P K, Director of the Centre for Budget Studies. Dr. K J Joseph, Director, Gulati Institute of Finance and Taxation, Dr. M K Sukumaran Nair and Dr. S Muralidharan shared their insights on the topic. The conference brought together a diverse group of policymakers, experts, and academicians to discuss various issues related to fiscal policy, budgetary processes, and the challenges facing the Indian economy.

Computational Fluid Dynamics National Seminar

A two-day national seminar on Computational Fluid Dynamics (CFD) was organised by Department of Ship Technology on March 17 and 18. Dr. V Meera, Registrar, inaugurated the programme.

Dr. P K Satheesh Babu, Head, Department of Ship Technology presided over the function. Dr. V Ananthasubramanian, Retired Professor, Ocean Engineering, IIT Madras, was the chief guest. Dr. Anil Kumar Dash, NIT Kozhikode, Dr. K Sivaprasad, Dr. A Mathiazhagan, Dr. Manoj T Issac, P U Kavya, Rasmia P Ali, Dr. T K Favas, and P A Akram spoke on the occasion.

The basis and application of CFD, an innovative branch of knowledge that opens the door to computer-based experiment, observation and research in the field of engineering design and research, was discussed in the seminar.

The seminar also discussed the latest open source software in the field of CFD and computer-aided design in ship and marine industries.

DR. V ANANTHA SUBRAMANIAN, RETIRED PROFESSOR, OCEAN ENGINEERING, IIT MADRAS, WAS THE CHIEF GUEST

Dr. V Ananthasubramanian, Retired Professor, IIT Madras, Dr. P Krishnankutty, Retired Professor, IIT Madras, Dr. Simon Peter, NIT Kozhikode, Dr. Anil Kumar Dash, NIT Kozhikode, Dr. M N Senthil Prakash, CUCEK, G A Suryatheja, Cochin Shipyard Limited, Dr. D D Ebenezer, Dr. T K Favas, Kunjunni Mohanan and H Rahul Krishna presented papers in the seminar.

International Conference on Emerging Technologies in Maritime Industry

Sandit Thandassery, Chief Executive Officer of Naval Solar and Electric Boats, inaugurated the International Seminar on 'Advanced Technologies in Maritime Industry' at Kunjali Marakkar School of Marine Engineering (KMSME) on January 12. The seminar was inaugurated by the Vice Chancellor, Dr. K N Madhusoodanan. Chairman of IME(1) Kochi Branch, S Krishnankutti was the special guest of the event. Prof. R Venugopal, Director, KMSME, Dr. Jayaram S, Seminar Convener, Prof. Narayanan Namboothiri V. N, Dean, Faculty of Engineering, and Prof. Jis George, Course-in-charge, KMSME spoke.

Two-day National Meet at School of Legal Studies

A two-day national conference titled 'Five Decades of Basic Structure Doctrine and Fundamental Rights Jurisprudence' was organised by Justice V R Krishna Iyer Chair on Human Rights, School of Legal Studies, on February 24 and 25. The conference was intended to discuss the various aspects of judicial interpretations of 'Basic Structure' and provide a comprehensive analysis of the journey of the doctrine through the last 50 years. The event was inaugurated by Justice (Rtd) S Siri Jagan, Former Judge, High Court of Kerala & Vice Chancellor, National University of Advanced Legal Studies, Kochi.

Two-day Seminar on Regulation and Sustainable Management of Marine Fisheries

School of Legal Studies and Cochin University Maritime Club, in collaboration with Indian Council of Agricultural Research -Central Marine Fisheries Research Institute (ICAR-CMFRI), Kochi organised a two-day international seminar on 'Regulation and Sustainable Management of Marine Fisheries: Prospects and Challenges' on February 2 & 3 at the School of Legal Studies.

The seminar was inaugurated by Dr. Meera V, Registrar, on February 2 in the presence of Dr. Harigovind. P. C, Director, School of Legal Studies, Dr. Shinoj Parappurathu and Dr. Sreenath. K. R, senior scientists at ICAR-CMFRI, Kochi.

The release of the publication 'Sustainable Marine Fisheries: Regulatory and Scientific Convergence' was also held during the seminar. The first copy of the book was handed over to Dr. Meera V by Dr. J Jayasankar, Head in Charge of FRAEE Division at ICAR-CMFRI, Kochi.

THE RELEASE OF THE PUBLICATION 'SUSTAINABLE MARINE FISHERIES: REGULATORY AND SCIENTIFIC CONVERGENCE' WAS ALSO HELD DURING THE SEMINAR

Legal and scientific specialists from around the globe, including Dr. Grinson George, Senior Programme Specialist, SAARC Fisheries Centre, Dhaka, Bangladesh, Ms. Regina M Paulose, International Criminal Law Attorney, United States and scientists from ICAR-CMFRI, Kochi attended the seminar.

Students and research experts from various institutions, including Sultan Qaboos University, Oman, presented thirty-three papers and led discussions on the opportunities and problems of sustainable management and regulation of marine fisheries. Over 100 participants from around the globe attended the seminar.

42nd ICSPDS Brings Together Statisticians Across Globe

The Department of Statistics hosted the 42nd Annual Convention of the International Conference on Statistics, Probability, Data Science and Related Areas (ICSPDS) 2023 in conjunction with Indian Society for Probability and Statistics (ISPS) Convention. It brought together statisticians worldwide from academia, industry, government, and research institutions to explore the latest developments and challenges in the era of Data Science and Statistical Learning. The aim of the conference is to provide a platform for interaction between industrial practitioners and academia; create a form for the exchange of experiences and ideas; and may foster international collaboration in research and other technology transfer activities.

RICHU RAJESH, RESEARCH SCHOLAR, BEING AWARDED THE ISPS YOUNG STATISTICIAN AWARD AT ICSPDS 2023.

Probability Theory, Distribution Theory, Statistical Inference, Stochastic Process, Bayesian Inference, Official Statistics, Time Series Analysis, Operations Research, Multivariate Analysis, Applied Regression Models, Design of Experiments, Sampling Theory, Statistical Quality Control, Reliability Theory, Survival Analysis, Demography, Industrial Statistics, Business Statistics, Medical Statistics, Actuarial Statistics, Data Science, Mathematical Modelling, Econometrics, Agricultural Statistics, Biostatistics, Nonparametric Statistics, Mathematical Finance, Actuarial Statistics, Computational Statistics, High Dimensional Statistics were the topics of the conference.

The conference was held from January 4 to 6.

Scientific Research an Effective Legal Policy: Prof Raman Sukumar

"Scientific research is important as an effective legal policy that incorporates Science and Sociological realites", said Professor Raman Sukumar. The renowned academician from the Centre for Ecological Sciences, Indian lnstitute of Science, Bengaluru, was in the University in January to deliver a lecture on the 'Emerging Socio-Legal concerns of wild life, Ecology and Climate Change' as part of the Erudite Scholar-in-Residence programme organised by the School of Legal Studies, CUSAT, sponsored by the Kerala State Higher Education Council.

Arguing for a balance between animal interest and human interest, he said, "Nature is not always right and humans are not always wrong. In India, elephants destroy crops, tigers and leopards kills humans. The conflict is caused by push and pull factors. The push factors are environmental degradation etc and the pull factors include change in farming patterns". Claiming that ideological loyalties have hijacked scientific evidence and increased human-animal conflict, he advocated for creation of specific zones without the presence of animals. He also sought a comprehensive policy for conservation.

The inaugural address was given by Ms. Jean Vinitha Peter, Asst. Professor, School of Legal Studies, CUSAT. She emphasised the importance of the Erudite lecture series to both students and researchers. The presidential adresss was given by Dr. Harigovind, Director, School of Legal Studies who remarked the topic as one of the burning issues of the day.

The five day programme concluded on January 27.

International Workshop on Understanding Machines; Explainable AI

A week-long workshop focussing on 'understanding machines; Explainable AI' under the Accelerate Vigyan Scheme of the Department of Science and Technology- Science and Engineering Research Board (DST-SERB) was organised at the Department of Computer Applications.

The scheme aims to advance the research productivity of promising post graduate and Ph.D. students from universities and colleges through high-end workshops on specific themes. This workshop intended to simplify the dissemination of Explainable Al-related knowledge, concepts, and associated techniques.

Speaking at the seminar, Vice Chancellor Dr. K N Madhusoodanan emphasized on the relevance of the workshop and discussed how artificial intelligence has become an indispensable part of everyone's day-to-day life, thus necessitating the spread of awareness about the different AI tools and technologies in all.

Prof. Raj Sharman., University at Buffalo, USA was the chief guest in the workshop. Prof. M V Judy., Head, Department of Computer Applications, Prof. Sasi Gopalan, Syndicate member, CUSAT, Prof. Vinod. P and Prof. Sabu. M K, Department of Computer Applications spoke at the event.

National Conference on Intellectual Property

The Inter University Centre For Intellectual Property Rights Studies (IUCIPRS) and the DPIIT-IPR Chair of the Cochin University of Science And Technology (CUSAT) jointly organised a national conference on 'Intellectual Property- (IP) Limitations & the way Forward' on March 9 & 10 on online mode. The topics of the conference included Literary and Artistic Works, Technology and Innovation sectors, Geographical Indications & Plant Variety protections, and Research Track for Research Scholars working in the area of IPR. Justice S Siri Jagan, Former Judge, High Court of Kerala & Acting Vice Chancellor, NUALS, inaugurated the conference.

The keynote addresses were delivered by Yogesh Pai, Associate Professor (Law), & Co-Director, Centre for Innovation, IP and Competition, National Law University, Delhi, Dr. Irene Calboli, Regents Professor of Law, Texas A&M University School of Law, Dr. Athira, Assistant Professor (Law), NUALS, Kochi & Director, the Centre for Intellectual Property Rights, NUALS, (Dr.) Shiju MV, Professor (Law), SAI University, Chennai and K M Gopakumar, Senior Researcher and Legal Advisor, Third World Network, Malaysia.

Dr. M Bhasi, Director, IUCIPRS, CUSAT, Dr. Sankar Sundaram, DPIIT Chair Professor, CUSAT, -Dr. I G Rathish, Assistant Professor IUCIPRS, CUSAT, Dr. Anson C J, Assistant Professor IUCIPRS, CUSAT, Dr. Kavitha Chalakkal, Assistant Professor IUCIPRS, CUSAT, Dr. Vishnu Sankar, Assistant Professor IUCIPRS, CUSAT, Dr. Asha R, Research Officer, IUCIPRS, CUSAT and Adv. Nagaraj Narayanan, Senior Government Pleader, High Court of Kerala, also spoke.

India's Amrit Kaal is Here: Manjeev Singh Puri

"India leads the world with sustainable & inclusive attempts for equity and equality covering women empowerment, digital transformation, and values that bind lives together," said Manjeev Singh Puri, former Ambassador to Nepal and former Indian Foreign Service officer. He was delivering a lecture in a Lecture Series at the University as part of G20 UNIVERSITY CONNECT on March 20. Addressing the university community on 'India's Presidency of G20', he added, "India's G-20 presidency is the time for the country to reach out the world and for the world to understand us. This is India's Amrit kaal, the moment of good opportunity to India." Stressing that the youth is the hope, future and strength of the country, Prof. A Subramanyam Raju, Dean (International Relations), Pondicherry University, said, "While the world is ageing, India is becoming young. The future depends upon how we look at the concept of Vasudhaiva Kudumbakam- One Earth, One Family, One Future."

Dr. K N Madhusoodanan, Vice Chancellor, Dr. P G Sankaran, Pro-Vice Chancellor, and Dr.Meera V, Registrar spoke on the occasion.

The theme of India's G20 Presidency - "Vasudhaiva Kutumbakam" or "One Earth · One Family · One Future" affirms the value of all life - human, animal, plant, and microorganisms - and their interconnectedness on the planet Earth and in the wider universe. The theme also spotlights LiFE (Lifestyle for Environment), with its associated, environmentally sustainable and responsible choices, both at the level of individual lifestyles as well as national development, leading to globally transformative actions resulting in a cleaner, greener and bluer future.

IQAC Workshop on Sustainable Development Goals

A one-day orientation workshop on Sustainable Development Goals (SDGs) was organised by Internal Quality Assurance Cell (IQAC) of the University of Science and Technology on March 29. The workshop was inaugurated by Prof. K N Madhusoodanan, Vice Chancellor, CUSAT. "SDG's have huge potential and lead to several opportunities. Transdisciplinary and multidisciplinary reorientation is the need of the hour," the Vice Chancellor said.

B Sreekumar, Additional Director, Directorate of Economics and Statistics, Thiruvananthapuram, Somasekharan Pillai M, Associate Professor & Head (Rtd.), Department of Statistics, University College, Thiruvananthapuram, Dr. Beena P. L, Professor, Centre For Developmental Studies, Thiruvananthapuram, Dr. K Sunil Mohamed, Retired Principal Scientist & Head of Division, Central Marine Fisheries Research Institute led the sessions.

The workshop is intended to reorient higher education and research institutions to meet the goals by the year 2030 as a matter of international commitment by the government. Dr. P G Sankaran, Pro Vice- Chancellor, Dr. V Meera, Registrar, Prof. Dr. K Girish Kumar, Director, IQAC, Dr. V Sivanandan Achari, Convener, SDG Workshop, spoke on the occasion.

Five-Day Workshop on Medical Images Understanding

"Utilising its strength in the competent areas of healthcare, Cochin University of Science and Technology is working on the cutting-edge aspects of medical images understanding based on artificial intelligence and machine learning. The partnership with industry fraternity, research institutions and medical professionals is a great platform for mutual benefits," said Dr. K N Madhusoodanan, Vice Chancellor, who was the chief guest at the five-day international workshop on Medical Images Understanding organised by the Norwegian University of Science and Technology

(NTNU) and the University under the International Partnership (INTPART) programme from February 27 to March 3.

"The intention of the programme is to translate the breakthroughs in the field of medical imaging research to projects beneficial to the public," said Dr. Santhosh Kumar G, Principal investigator, INTPART-INID Project. The event was attended by experts, including medical doctors, industry practitioners and researchers in the field of medical images and healthcare-related areas. The participants interacted with a delegation from Norway. Special talks, lectures, panel discussions and several research presentations were held as part of the workshop.

Primer v7 & Permanova International Training Workshop Organised

The Department of Marine Biology, Microbiology and Biochemistry, hosted renowned ecological statistician Dr. Marti J Anderson, Distinguished Professor and Chair of Ecological Studies at the New Zealand Institute of Advanced Studies, Massey University as the Chancellor's Chair. She is also the Director of Primer-e (Quest Research Limited), New Zealand, which developed PRIMER, a user-friendly statistical software for ecological and environmental studies being used by scientists and researchers in more than 100 countries. She has developed the modules of PERMANOVA software package of PRIMER.

The University had instituted the Chancellor's Chair using a portion of the prize money from the Chancellor's Award received in 2017. The intention is to bring world renowned academicians and scientists to the campus for interaction with the students, researchers and faculty of various departments. The inauguration of the Chancellor's Chair coincided with the five-day 'International Training Workshop in PRIMER v7& PERMANOVA' being handled by Dr. Marti. The workshop was envisioned in the MoU that was signed between Primer-e and CUSAT on March 17, 2023 in order to train researchers across the globe in efficient interpretation of data generated from their studies.

Dr. A A Mohammed Hatha, Director, School of Marine Sciences welcomed the gathering. Dr. Bijoy Nandan, Dean, Faculty of Marine Sciences delivered the prelude to the Chancellor's Chair. Dr. K N Madhusoodhanan, Vice Chancellor of CUSAT delivered the Presidential Address. The Chair and International Training Workshop was inaugurated by Dr. KP Sudheer, ex-officio Principal Secretary of Science & Technology Department and Executive Vice President of Kerala State Council for Science, Technology and Environment.

Dr. Marti J Anderson delivered the Chancellor's Chair Lecture. Dr. Lathika Cicily Thomas, Assistant Professor, Department of Marine Biology delivered the vote of thanks.

National Photonics Symposium 2023 Held

The National Photonics Symposium 2023 was held at the International School of Photonics on February 27 and 28. Inaugurated by Vice Chancellor Dr. K N Madhusoodanan, the event also saw distribution of awards to meritorious MSc., MTech. and PhD students of the School and the release of the Photonics News magazine, the annual souvenir of the department, highlighting all the academic and technical events in the previous year.

The conference witnessed oral presentations by young researchers from various universities in India, the National Science Day lecture given by Prof. Deepa Venkitesh, IIT Madras and talks by various experts including Dr. Rajesh V Nair, IIT Ropar, Prof. Soma Venugopal Rao, University of Hyderabad, Dr. Yedhu Krishnan, IIST, Thiruvananthapuram, Prof. Prashanth R., Pondichery University, Dr. Saurabh Raj, IIT Delhi and Dr. Jasleen Lugani, IIT Delhi, among others. Industrial talks by experts in the field including Dr. Samsheerali P.T, Kimball electronics, Thiruvananthapuram were also part of the conference.

The conference is a platform for bringing together leading scientists, academicians, industrialists and young researchers in the country for active discussions on various aspects of Photonics, making it beneficial to the photonics research community.

Science Education Needs Innovation to Help Girls: Scott E Hartmann

From March 23 to 26, the Centre for Science in Society (C-SiS) was brimming with energetic vibes of teachers, who posed as students before trainers half their age.

Keenly attending guided sessions and group exercises by education consultants and demonstrations in virtual reality and robotics from young students in their 20s, the select group of 10 high school teachers from Kerala and Tamil Nadu had a great time bonding, learning and unlearning, during the three-day residential workshop 'Expanding Girls' Horizons in Science', organised in association with the US Consulate General, Chennai.

Stressing on the US Consulate General Chennai's mission to promote Science, Technology, Engineering and Mathematics (STEM) education among the female population in India, Scott E Hartmann, Cultural Affairs Officer at US Consulate General Chennai said, "We are committed to finding pathways in developing innovative practices and fostering exchanges across disciplines. Our focus group in Chennai works on several ways to support girls, by developing a new curriculum that can help inculcate passion for science, reduce dropouts and initiate conversations." The focus group comprises educationists, consultants, Fulbright scholars and student exchange programme alumnis who also work as resource persons in various events.

The US Consulate General Chennai, is also focused on training STEM practitioners through programmes like the workshop at C-SiS. "Bringing together teachers, trainers and educational consultants, together we brainstorm to bring out innovative practices to address the challenges faced by girl students such as their aversion to take risks, pressure from society and reluctance to initiate conversations," Hartmann said.

As the next step, they are planning a month-long mentoring programme for girls. "It's a pilot project for a long-term association. After interventions and mentoring in learning, public speaking, career guidance, etc, the plan is to make a difference, and follow up on the progress," Hartmann added.

The US Consulate General Chennai found Kerala as the best choice to start the programme, says Hartmann. "The interest and discussions regarding higher education and science and technology, and the committed fight for gender equality makes Kerala an environment with lesser challenges for us. The support network for innovation, especially from the part of the government, is helpful in the attempts to create a level playing field. "We are planning more programmes partnering with C-SiS. We want to build a reputation for other states to emulate.

Listening to conversations with teachers, parents and students help take back interesting perspectives and ideas. A lot of interests, questions, conversations and experimentations are happening. It's an exciting time!"

Hartmann, US Consulate General, Chennai, has been in CUSAT for the past couple of days as part of the residential workshop for high school Science teachers with an aim to promote women in STEM that had sessions on nurturing innovation through demonstrations, group exercises and lab visits.

British Columbia University Adjunct Professor Visits

The Chancellor's Chair Scheme has been instituted in Cochin University of Science and Technology (CUSAT) to engage eminent scientists/ academicians from foreign universities having rank, preferably, within 200 in the world university ranking as Chancellor's Chair Professors. The Chancellor's Chair Professor scheme makes possible the presence of eminent academicians from world-renowned institutes in the campus for at least one month and the faculty members, scholars and students of the University get an opportunity to interact with them.

As part of this scheme, Professor George Iwama, Adjunct Professor at the University of British Columbia, Canada will be at CUSAT until February 27. Professor Iwama led the National Research Council of Canada (NRC) Institute for Marine Biosciences in Halifax, Nova Scotia as Director General. He also led the creation of the NRC Institute for Nutrisciences and Health on Prince Edward Island. He was the Dean of Science and Vice President of Academics at Acadia University and the Dean of Science at Carleton University. He has served as Executive Vice President, as well as Provost, of the Okinawa Institute of Science and Technology Graduate University, in Japan. He has held various posts at UBC including Special Advisor to the Vice President of Research and Innovation in Interdisciplinary Fisheries; Assistant Director of the Institute for the Oceans and Fisheries; and Vice Dean for Aquaculture and Strategic Initiatives in the Faculty of Land and Food Systems. He served as the President and Vice Chancellor of the University of Northern British Columbia, and most recently, he completed a term as President and Vice Chancellor of Quest University Canada.

PROFESSOR GEORGE IWAMA IS VISITING CUSAT TO SHARE HIS KNOWLEDGE AND EXPERTISE IN RESEARCH AND ADMINISTRATION WITH A FOCUS TO EDUCATE AND ENLIGHTEN THE STUDENTS, RESEARCHERS, AND FACULTIES OF CUSAT, FOR EFFECTIVE IMPLEMENTATION OF RESEARCH, BUILDING UP COLLABORATION, AND SUCCESSFUL MANAGEMENT OF RESEARCH AND EDUCATION SYSTEM.

Professor George Iwama is an eminent scientist in the field of Aquaculture and stress physiology and he is always at the forefront to apply his knowledge to aquaculture and to issues of climate change and pollution. He is a person who is interested in making science accessible to the public. Professor George Iwama is visiting CUSAT to share his knowledge and expertise in research and administration with a focus to educate and enlighten the students, researchers, and faculties of CUSAT, for effective implementation of research, building up collaboration, and successful management of research and education system.

During his tenure at CUSAT as the Chancellor's Chair, Professor George Iwama will also be visiting some selected universities and affiliated colleges in Kerala.

Sree Chitra Tirunal Institute Director Dr. Sanjay Behari Visits ICREP

Dr. Sanjay Behari, Director, Sree Chitra Tirunal Institute for Medical Sciences and Technology, spoke at an invited lecture on 'Relevance of Bioethics in Health Care Practice And Research organised by Prof. N R Madhavamenon Interdisciplinary Centre for Research Ethics & Protocols (ICREP). The release of the book, 'Health care and Bioethics: A Compendium on Bioethical Perspectives' was also held as part of the event held on March 1. The programme was coordinated by Dr. Vani Kesari A, Co-ordinator, ICREP, CUSAT.

Evolving AI & Media Landscapes: Workshop at Computer Science

A one-day workshop on 'Evolving AI & Media Landscapes' was jointly organised by the Department of Computer Science, Cochin University of Science and Technology, IIT Palakkad and Queen's University, UK. K J Jacob, Journalist, Rajeev M Azhuvath, TCS Kochi, Sahely Badhra, IIT Palakkad, and Sunil Prabhakar, Digital Media Consultant, participated. P J Cherian, Pama Research Institute, T M Harshan, Journalist, and S R Sanjeev, Mar Ivanios College, also spoke

RBI Deputy Governor Delivers Lecture

"G20 Presidency helps maintain peace and financial stability apart from promoting sustainable development in the country," noted M Rajeshwar Rao, Deputy Governor, Reserve Bank of India, who was the chief guest of Distinguished Alumni Lecture Series on 'India's G20 Presidency: The Key Financial Sector Issues and Challenges', organised by the School of Management Studies in association with CUSAT Alumni Association on January 20.

At the event, he interacted with the alumni of School of Management Studies, teachers, students and research scholars of the university. Vice Chancellor Dr. K NMadhusoodanan, Pro-Vice Chancellor, Dr. P G Sankaran, Dr. Jagathy Raj V P Director, School of Management Studies, Dr. Manoj Edward, Fculty Coordinator, SMS Alumni Association, Dr. P K Baby Secretary, CUSAT Alumni Network, attended the meeting.

CUSAT, University of Oman Collaborate in Ship Technology

The Department of Ship Technology, Cochin University of Science and Technology, and the University of Technology and Applied Sciences under the Government of Oman agreed to work together to mould the new generation with skills in the fields of ship design, construction, and maintenance at a global level. The discussions of mutual cooperation started during the visit of Dr. Saeed Hamad Al Rubai, Vice Chancellor, University of Technology and Applied Science, and his team to CUSAT in August. A memorandum of understanding for cooperation between the University of Oman, which is entering the field of naval architecture studies, and CUSAT, which is completing five decades in the field of naval architecture studies, and possibilities of academic collaboration, student exchange, etc, were discussed.

Dr. Saeed Hamad Al Rubai visited the Department of Ship Technology, and he congratulated the department, which contributes to the global community by producing graduates with special expertise in the relevant field. Dr. Muhammad Mubarak Muhammad Araimi, University of Technology and Applied Science, Dr. Sasidharan Sreedharan, and others also participated in the discussions held in the Department of Ship Technology. Dr. P K Satish Babu, HOD, presided over the programme. Former heads of the department, Dr. K Sivaprasad, Dr. A Mathiyazhakan, and Dr. P Krishnankutty, spoke. Dr. Sajeer Karatil, Dr. DD Ebenezer, Dr. Rajesh P Nair, Dr. Manoj T Isaac, Dr. T K Fawas, Arvind K R, Akram P A, Anoop Chitrasena, Mohammad Ashiq, Dr. Bina Mary John, Dr. Hasina. KA, and others participated in the discussion.

Furthers discussions were held at the Vice Chancellor's Chamber exploring the possibilities of mutual cooperation in the field of marine studies and research and the possibilities of higher education scholarships were discussed.

CUSAT Research Output, Academic Excellence at Par with Any Foreign University: VC at Sasthrayaan

The third edition of Sasthrayaan, a three-day science jamboree that showcased the vibrant research activities and state-of-the art facilities at the University from January 23 to 25 saw students and public across the state flocking into the Kalamassery campus.

At Sasthrayaan 2023, school and college students who are interested in Science and Engineering fields were exposed to various cutting-edge research areas through the live demonstrations, working models and presentations arranged at the exhibition stalls in Science Seminar complex, CUSAT. They visited the numerous research laboratories and departments in CUSAT campus, apart from attending expert talks in various topics including career orientation, various programmes in CUSAT and industry-academia partnership.

Inaugurating the science festival, Vice Chancellor Dr. K N Madhusoodanan stressed on the importance of Sasthrayaan at the time of the National Education Policy (NEP) and transformation of higher education scenario. "Attracting talents during this era of global mobility and brain drain is a challenge. The high quality research output and academic excellence of CUSAT is at par with any foreign university which has superior financial and infrastructural backing. Resuming Sasthrayaan, the flagship programme of CUSAT, this year after the COVID crisis break, is an attempt to showcase to the world our academic and research activities which are superlative," he said. Sasthrayaan, which started in 2017 as a brainchild of CUSAT, was adopted by educational institutions across the country following its success.

PRIZES FOR THE SHORT VIDEO CONTEST WERE DISTRIBUTED TO THE DEPARTMENT OF PHYSICS, SCHOOL OF ENVIRONMENTAL STUDIES (ABOVE) AND SCHOOL OF LEGAL STUDIES (BELOW)

Dr. P G Sankaran, Pro-Vice Chancellor, Dr. V Meera, Registrar, Dr. K Girish Kumar, Director, IQAC, and Dr. Sasi Gopalan, Member, Syndicate, also spoke at the inaugural ceremony where prizes for the short video contest were distributed to the Department of Physics, School of Environmental Studies and School of Legal Studies.

'Priority for Industrial Research'

At the Industry Academia Conclave held in connection with Sastrayaan, heads of around 30 companies, including leading industrial firms like Kochi Metro, BPCL, FACT, PPC, IBM, TCS, Geojit and Synthite were in attendance.

The Heads of various Departments of the University also participated in the discussion led by the Vice Chancellor Dr. K N Madhusoodanan. Kochi Metro Rail M.D Loknath Behra commented that the universities of Kerala should be self-sufficient in order to be able to predict the technologies beyond ten years. The conclave urged that the university should come up with projects that will help industrial growth by harnessing the endless possibilities of artificial intelligence.

T M Mahadevan Remembrance Meeting Held

Renowned Earth Scientist T M Mahadevan (98) remembrance meeting was conducted at Department of Marine Geology and Geophysics, Cochin University on March 31 at 11 am in hybrid mode. T M Mahadevan was retired in 1987 as the Director of Atomic Minerals Division (AMD), under the Department of Atomic Energy, Government of India. The meeting recalled and appreciated his valuable contributions in the field of Earth Sciences.

Eminent Geoscientists from different parts of India and his family members also participated in the meeting. Prof. K V Subba Rao, Prof. M Radhakrishna (IIT Bombay), Prof. B R Arora (Wadia Institute of Himalayan Geology, Dehradun). Prof. Mita Rajaram, Prof. Sanjay Gokaran (Indian Institute of Geomagnetism, Mumbai), Dr. P Krishna Murthy, Dr. Partha Sarathy (GSI Kolkata), Dr. V M Tiwari (NGRI, Hyderabad), Dr. Yamuna Singh (AMD, Hyderabad), Dr. Sunil P S, Dr. Ajay Kumar (CUSAT), Usha, Sumathi (Daughters of Mahadevan) delivered the speeches.

Over 400 Donate Blood Stem Cell

Blood stem cells were collected from more than 400 people from CUSAT, including students, teachers, non-teachers and residents aged between 18 and 50 at the Voluntary Blood Stem Cell Donation Registration Campaign to save the life of 14-year-old Aditya Krishna, who was suffering from a rare disease. The NSS unit 5 of CUSAT and Datri Blood Stem Cell Donor Registry conducted the Campaign to help Aditya Krishna, a native of Elamakkara, Kochi. The aim of the camp was to find a donor for Aditya Krishna's stem cell transplant. He is suffering from aplastic anemia, a rare bone disease that stops the production of new blood cells. The odds of finding a donor match are between one in ten thousand and one in a million. Representative of Datri Stum cell Donor Registry Ratheesh led the awareness campaign for donors.

Dr. Aparna Laxmanan, NSS Programme Officer, CUSAT of Unit 5, led the camp. "Many myths can be dispelled if awareness about the importance and technical aspects of blood donation and organ donation are made part of the curriculum," Dr. Aparna commented.

Officials Plant Saplings to Celebrate End of Probation

Aparna, Shruti, Jinsha, Jithin and Vivek officers at the administrative office of the University of Science and Technology (CUSAT) decided to celebrate the day of completion of their two year observation period in a different way. They celebrated this important day by planting sandal tree saplings near the library near the Cochin University Kalamassery campus. Although willow trees are planted on retirement days in CUSAT, this tree planting on the day of probation is an exemplary act.

World Hindi Day Observed

The Department of Hindi celebrated World Hindi Day with Chinmaya Vidyapeet Assistant Professor Dr. Rajneesh Kumar Mishra delivering the keynote address. Dr. K Ajitha, head of the Department, welcomed the gathering. Dr. R Sasidharan, a member of Syndicate spoke at the event. Dr. A. K Bindu delivered the vote of thanks. Cultural programmes were conducted by students as part of the event.

VIT Chennai Emerge Winners in Fourth CUSAT Model United Nations

AT THE VALEDICTORY FUNCTION, DR. P K BABY, DIRECTOR OF THE DEPARTMENT OF YOUTH WELFARE, DISTRIBUTED PRIZES AND TROPHIES TO THE WINNERS.

Vellore Institute of Technology, Chennai won the all-over championship at the 4th CUSAT Model United Nations (CUSAT MUN 2023) organised by the Department of Youth Welfare, Cochin University of Science and Technology.

Around 300 students, representing different colleges from more than 10 states, participated in the event conducted from January 20to 22 on the lines of different congregations of the United Nations.

The MUN was conducted across 6 committees. The following committees were part of the 4th edition of CUSAT-MUN: UNGA-DISEC, where demilitarisation of South China Sea was the topic of discussion, United Nations Human Rights Council where the right to health was discussed in the light of mental health issues arising as a result of the Covid-19 pandemic, The UN Commission on the Status Of Women where the achievements of women in overcoming all religious and cultural barriers were discussed and The All India Political Party Meet where the topic of One Nation One Election and the relations between governors and elected governments were discussed.

At the political parties meet, the need to curb the gradually rising expenditure of Indian elections and the necessity of governors and elected governments to work for the welfare of the states were discussed. The CSW reached a general consensus that the United Nations have to sufficiently fund the empowerment of women in developing countries.

The global scenario in the aftermath of the 9/11 attack on the World Trade Centre was discussed at the Continuous Crisis Committee. The discussions taking place within the committees and the resolutions passed were duly recorded by the members of the International Press.

In the UN General Assembly Disarmament and International Security Committee, UNGA DISEC, Ajay Martin from VIT Chennai who represented Singapore was adjudge as then best delegate of the committee. In the United Nations Human Rights Council, UNHRC, P C Varshini from VIT Chennai who represented the United States of America was selected as the best delegate. Karthik K from VIT Chennai who represented Belgium has been selected as the best delegate from the UN Commission on Status of Women, CSW. In the CRISIS Committee, Athul Krishna from Cochin University of Science and Technology who represented Canada was adjudged as the best delegate. In the International Press, Deepika Ganesh from Christ University Bangalore and Prabhu Sankar from VIT Chennai was selected as the best reporter and best photographer respectively. And finally, in the All-India Political Party Meet, Sreelakshmi V from UC College Aluva received the Special Mention Award.

At the valedictory function, Dr. P K Baby, Director of the Department of Youth Welfare, distributed prizes and trophies to the winners. The other distinguished members of the function were Mohammad Zaman, Secretary General, CUSAT-MUN, Gouri N, Co-Director General, Adithya Udayakumar, Co-Director General and Parvathy Nair K A, Convenor CUSAT-MUN.

Dr. P V Vijayan Remembered

A condolence meeting was held at the Department of Hindi on the death of Dr. P. V Vijayan, Professor and former head of Hindi Department on January 27. Pro-Vice Chancellor Dr. P G Sankaran , Dr. K Ajitha., head of the Hindi Department, former CUSAT Vice Chancellor Dr. Babu Joseph, P V Krishnan Nair., former Secretary of Sahitya Akademi, Dr. Abdul Jalil, former Registrar of Aligarh University, Dr. Shemeem Aliar, Retired professor, Dr. K G Prabhakaran, prominent persons of Sahitya Mandal Kochi and Hindi Department Alumni Association expressed their condolences.

Dr. Ethiran Kathiravan at Popular Science Culture Lecture Series

Dr. Ethiran Kathiravan, senior scientist and faculty at the University of Chicago, gave a speech as a part of the Popular Science Culture Lecture Series which was organised under the auspices of CUSAT Students Youth Welfare Department. The topic was 'Family, Sex, Children-Evolutionary Perspective'.

He explained that the basic purpose of sex was to produce stronger offsprings capable of survival in the evolutionary process, and that the concept of family began as part of man's introduction of agriculture and economic accumulation. Dr. Kathiravan has many theses and patents to his credit and has authored popular works such as 'Malayaliyude Janithakam' in Popular Science.Jagathy Raj V P Director, School of Management Studies, Dr. Manoj Edward, Fculty Coordinator, SMS Alumni Association, Dr. P K Baby Secretary, CUSAT Alumni Network, attended the meeting.

Dr. L Suneetha Bai Smriti Puraskar Distributed

Dr. L Suneetha Bai Smriti Puraskar, instituted by Department of Hindi, Cochin University of Science and Technology (CUSAT), were distributed by Pro-Vice Chancellor P. G Sankaran at a function held at CUSAT Hindi Auditorium on March 27. The award is sponsored by V Balakrishna Shenoi, in memory of Dr. L Suneetha Bai, his wife.

Dr. P Ravi, Former Head of Hindi Department, Sanskrit University, received the Suneetha Bai Gyan Puraskar for Critical Literature (₹15,000), Dr. P R Hareendra Sarma, Assistant Director, Thiruvananthapuram Doordarshan Centre, received the Suneetha Bai Dhishana Puraskar for Konkani Literature (₹10,000). Nivya Antony and Pooja K Pillai were awarded with Medha Puraskar for PG students in the Hindi Department.

Dr. R Sasidharan, Emeritus Professor Hindi Department, Dr. K Ajitha, Head, Hindi Department, Dr. P K Baby, Director of Youth Welfare Department, Adv. V Balakrishna Shenoi, Ramachandran K.K, Secretary, Alumni Association Hindi Department and Dr. P Praneetha, Associate Professor, spoke on the occasion.

Prof. G N Ramachandran Birth Centenary

On the birth centenary year of the eminent scientist GN Ramachandran, Department of Biotechnology organised a two-day national symposium to commemorate his contributions to the field of Structural biology.

GN Ramachandran was the most outstanding X ray crystallographer, structural biologist and scientist of the Nobel calibre India has ever produced. He predicted the most accurate structure of collagen protein and introduced Ramachandran Plot to predict protein structure.

The symposium was inaugurated by CUSAT Vice Chancellor Dr. K N Madhusoodanan. Pro-Vice Chancellor Dr. P G Sankaran presided over the function.

Dr. Parvathi A, Head, Department of Biotechnology, was the chairperson of the symposium. Prof. M Haridas., Emeritus Professor, Kannur, was the Convener of the symposium. Dr. Bhavya. B C, Assistant Professor, Department of Biotechnology, felicitated the gathering and emphasised the need of having a state-of-the-art centre for advanced research on structural biology.

THE SYMPOSIUM WAS INAUGURATED BY CUSAT VICE CHANCELLOR DR. K N MADHUSOODANAN

Close associates of GNR and eminent scientists in the field of Structural biology, Prof. Dr. Manju Bansal IISc, Bangalore, Dr. T P Singh, AIIMS, Delhi, Dr. Sowdhamini (NCBS, Bangalore, Prof. D Velmurugan , AMET University, Dr. Chandrabhas Narayana, Director, RGCB, Emeritus Prof. P R Sudhakaran , Kerala University, Prof. P Karthe, Madras University, Dr. Madhan B, CLRI, Chennai and Dr. Dileep Vasudevan, ILS, Bhubaneswar, shared their valuable memories with professor GNR and presented their extensive work done in the field. The symposium also had a panel discussion focussing on instituting an advanced integrative structural Biology Centre in the name of GNR.

Cochin University Film Festival Organised

The very 1st edition of Cochin University Film Festival began on March 28 at Cochin University. Union Chairperson Namitha George delivered the welcome speech. Film director Arun Bose, the distinguished guest, inaugurated the programme by commemorating the departed film actors from the Malayalam film industry.

Almost 70 short films were screened during the three-day film festival. A film quiz was also conducted as part of the first day session. The audio launch of the movie *B - 32 Muthal 44 Vare* was held in the presence of the cast and crew, followed by a soulful performance by playback singer Sudeep Palanad.

A short film making workshop led by Govind Valsaraj, short filmmaker, a talk show led by poet Anwar Ali, an interactive session with the cast and crew of Malayalam film *Pookalam* and a Sufi Night led by the Music Troop Mehfil E Samaa.

5 Crore HCL Foundation Grant for Plan@Earth Collaboration

The proposal submitted by Plan@Earth NGO in collaboration with School of Industrial Fisheries, Cochin University of Science and Technology has received a ₹5 Crore HCL Foundation grant. This grant total will be used for three years for the recycling of plastic from the ocean and the removal and recycling of algae in the Vembanad backwaters.

Promoted by Suraj Abraham, Gomati Mahadevan, Mujeeb Mohammad and Rasheed KP, Plan@Earth is an NGO working in the field of solid waste recycling for the past thirteen years. Dr. Harikrishnan, faculty at CUSAT School of Industrial Fisheries, will act as technical consultant and Dr. Harish N Ramanathan as management consultant for the project. Plan@Earth has begun work on a collaborative agreement with CUSAT to expand the science and technology base for waste management.

SoE Conducts Hackathon Boot Camp

The School of Engineering, in association with Entrepreneurship Development Institute of India (EDII), Ahmedabad, successfully organised a Sustainability Hackathon boot camp in School of Engineering, CUSAT, to identify promising innovators. School of Engineering was one of the two institutes from Kerala selected by EDII for partnership in promoting sustainable development entrepreneurship.

Dr. P G Sankaran, Pro-Vice Chancellor, CUSAT, inaugurated the event. Sivan Ambattu, faculty of EDII, delivered the keynote address on the importance of sustainable development entrepreneurship ecosystem.

More than 100 students from various institutions, including the School of Engineering, participated in the event and presented their sustainable solutions to the challenges under seven important sustainable development goals set by the G20 Summit led by India.

Farewell Function in Honour of Vice Chancellor, Pro-Vice Chancellor

Cochin University of Science and Technology organised a grand farewell function to honour Vice Chancellor Dr. K N Madhusoodanan and Pro-Vice Chancellor Dr. P G Sankaran who are completed their term on April 24. Several people attended the event organised by various organisations and the university community at CUSAT Seminar Complex at 10 am on Monday.

Shri P Rajeeve, Law and Industries Minister, was the Chief Guest at the event. In his keynote address, he spoke about the significant contributions by Vice Chancellor Dr. K N Madhusoodanan and Pro-Vice Chancellor P G Sankaran towards the upliftment of the University. During my tenure, the stress was on economic and research-oriented education rather than human resource development, said Vice Chancellor Dr. K N Madhusoodanan. Pro-Vice Chancellor PG Sankaran said that all his missions could be achieved during the past four years.

Dr. K N Madhusoodanan is the 14th Vice Chancellor of CUSAT. He took charge of the position on 25th April 2019. He has more than 20 years of experience in teaching and research. He had served as Head, Department of Instrumentation, CUSAT, Member of Academic Council, CUSAT and as Dean, Faculty of Engineering and Technology, M G University, Kottayam.

Dr. P G Sankaran is the thirteenth Pro-Vice Chancellor of Cochin University of Science and Technology (CUSAT). He has more than 22 years of experience in teaching and research. He had served as Head, Department of Statistics, CUSAT and as Director, Centre for Population Studies.

Dr. Benjamin Varghese, Controller of Examinations, Dr. Meera V, Registrar, Sudheer M S, Finance Officer, C K Asha, MLA, Dr. N Balakrishna, Syndicate Member, Dr. K Ajitha, Dean, Faculty of Humanities, Dr. K Girishkumar, Director, IQAC, Namitha George, Cochin University Union Chairperson, and member of various organisation spoke at the event.

Bodhi Project Review Meeting Aims to Make Kerala Dementia-friendly

IN THE MEETING HEADED BY HIGHER EDUCATION MINISTER DR. R BINDU, ERNAKULAM DISTRICT COLLECTOR N S K UMESH IAS, WHO IS ALSO THE CHAIRMAN OF THE DISTRICT MONITORING COMMITTEE OF BODHI, BRIEFED ON THE PROGRESS OF THE PROJECT

The University of Science and Technology on April 11 hosted the annual review meeting on the activities of the Bodhi Project, which is being implemented by Prajna, the brain research department of the Centre for Neuroscience at the University, in association with the Social Justice Department and the District Administration, to develop Ernakulam into the first dementia-friendly district in the country.

In the meeting headed by Higher Education Minister Dr. R Bindu, Ernakulam District Collector N S K Umesh IAS, who is also the chairman of the District Monitoring Committee of Bodhi, briefed on the progress of the project. CUSAT Vice Chancellor Dr. K N Madhusoodanan presided over the meeting, in which Social Justice Department Director Anjana IAS evaluated the progress of Bodhi so far.

Kochi was declared India's first dementia-friendly city in 2021 as a result of Pragya's activities. The aim of Tuesday's meeting was to decide on implementing the second phase of Bodhi as a pilot project across the district and to extend the activities to the entire state in the backdrop of the successful implementation of the first phase. In phase-I, Bodhi undertook activities for diagnosis, treatment, rehabilitation and empowerment of people suffering from dementia in Ernakulam district.

The high-level meeting that reviewed the progress of the projects in the highly-successful first phase of Bodhi, was attended by representatives of the District Medical Office, Directorate of Health Services, Social Security Mission and District Administration and a team of researchers led by Dr. Baby Chakrapani, Director, Centre for Neuroscience, CUSAT.

At the meeting, it was proposed to start memory clinics at primary health centers to increase awareness about dementia, and to begin care centres and memory cafes to assist and empower patients at grassroot level. The meeting also discussed the launch of more screening centers for early diagnosis, facilities for therapy, daycare and counseling services, awareness programmes with the help of Kudumbashree and Asha workers, and training for volunteers, and implementation at Panchayat and Block levels across the state.

The Centre for Neuroscience will also submit a proposal to implement a dementia-friendly policy by the state government by next year.

Two New Revenue-Generating Schemes Introduced in Budget 2023-24

Stressing on further elevating the academic standards to global levels through student-centric initiatives, the University proposed two revenue-generating schemes in the Budget for the 2023-24 financial year. The novel concept of 'Course-based External Registration with Credit-based Fee Structure', where externally registered students can join various courses offered by the university, is expected to generate a revenue of ₹5 crore. The 'Open Distance Learning' mode programmes, planned based on UGC regulations, are expected to generate ₹3 crore as revenue.

In the Syndicate meeting convened on March 4 presided by Vice Chancellor Dr. K N Madhusoodanan, Dr. K Ajitha, convener, Standing Committee of the Syndicate on Finance & Purchase, presented the budget. A total income of ₹386.50 crores and an expenditure of ₹411.57 crores are expected in the budget.

The University is also planning to introduce several other new initiatives and ventures. The proposals include setting up a Centre for Excellence in Aquatic Vaccine Development (₹1 crore), Faculty and Student Mobility Scheme (₹25 lakh), Green campus initiatives (₹60 lakh), Smart Campus (₹25 lakh), Research initiative in Bioscience (₹50 lakh), Centre for Sensor System Technology (₹1 crore) and Travel Assistance to researchers for paper presentation at conferences (₹10 lakh).

In the Budget, ₹60 crore has been earmarked for construction, repair and maintenance. ₹4.50 crore will be provided as assistance for university and inter university centres. ₹50 lakh will go towards setting up lab facility for new courses. Apart from an allocation of ₹10.50 crore for fellowships and scholarships to students and ₹50 lakh as seed money for research initiatives by faculty, a sizeable allocation has been made to provide incentives to research scholars, and training for staff and teachers.

From the ₹816.79 crore sanctioned in the State Budget 2023-24 for higher education sector, ₹100 crore will be capped to set up six proposed centres at CUSAT in the fields of Sensor Systems Technology, Forensic Science, Climate Information Services, Cognitive Computing, Antimicrobial Resistance Surveillance Structural Biology. A sizeable share from ₹9 crore earmarked in the State Budget is expected to fund the Mariculture development project by the university. ₹1 crore from the state budget allocation will be capped for Risk Fund for Translational Research. Sudheer M.S, Finance Officer was present in the Syndicate when the budget proposals were presented.

B.Tech Naval Architecture Repeats Record of 100% Placement

The final year students of B.Tech Naval Architecture and Shipbuilding under the Department of Ship Technology attained 100 percent placement in 2023 as well. As the 44th batch of B.Tech Naval Architecture and Shipbuilding Course passes out, of the` 43 students who completed the programme, 41 have already secured placements and 3 among them have opted higher studies.

With reputed companies coming up for placements in the coming days, Ship Technology will be able to maintain its 100% placement success like the past four decades. The highest annual offer this year is ₹17.3 lakh and the average offer is ₹8.3 lakh. Last year it was ₹16.2 lakh and ₹7.3 lakh respectively.

Students have received placements in world renowned companies in the fields of design and consultancy, classification societies, Shipyards and vessel performance. This will include 14 students who have joined the Indian Navy as cadets and have successfully completed the B.Tech Naval Architecture and Shipbuilding course from CUSAT and leave the campus attaining the rank of Sub-Lieutenant in the Indian Navy.

The placement activities are coordinated by Student Placement Coordinators Kevin Cherian, Mazin Rahman C.K, Adarsh.T.O and Vishnu P A and Faculty Placement Coordinators Arvind K R., Mohammad Ashiq and Anoop Chitrasena under Dr. P K Satheesh Babu, Head of Ship Technology Department.

C-SiS Faculty Wins US Visiting Fellowship

Dr. Abesh Reghuvaran, Assistant Professor, Centre for Science in Society, Cochin University of Science and Technology, was chosen for the International Visitor Leadership Programme of the US Bureau of Educational and Cultural Affairs.

DR. ABESH REGHUVARAN

The programme, held at Washington DC from December 2 to 23, involved participants from the QUAD countries of the US, India, Japan and Australia. The main objectives of the programme are exchange of academic knowledge from different countries and improving the quality of learning in Science, Technology, Engineering and Mathematics (STEM) subjects.

PhotonTech Optics Programme in Photonics

PhotonTech 2023, an innovative educational outreach programme, was jointly organised by the International School of Photonics (ISP), Cochin University of Science and Technology (CUSAT) and the IEEE Photonics Society, Kerala Chapter, aiming to provide training in Optics to higher secondary school teachers. The one-day programme was inaugurated on February 4 by Pro-Vice Chancellor Dr. P G Sankaran. Dr. Pramod Gopinath, Chair, IEEE Photonics Society Kerala Chapter, welcomed the gathering to the programme. The inaugural meeting was presided by Dr. Saji K J, Director, ISP. Prof. M Kailasnath, Dean, Faculty of Technology, felicitated the occasion while Binu Jiju, Secretary, IEEE Photonics Society Kerala Chapter, expressed her gratitude on behalf of IEEE.

The inaugural ceremony was followed by an invited lecture by Prof. Rick Trebino, Professor of Physics, Georgia Institute of Technology, who highlighted the importance of multimedia lectures for effective knowledge transfer to the student community. This was followed by lectures by Prof. V P N Namboori, one of the founding pillars of ISP and Dr. Priya Rose T, Assistant Professor, ISP, highlighting the history of optics from its roots and demonstrating certain interesting fundamental phenomena in optics.

A total of 25 higher secondary school teachers from various schools in and around Kerala attended the programme. Post the lectures of the morning session, the participants were taken to visit the research labs of ISP, where core research experiments were demonstrated by the research scholars. Dr. Suresh Nair, Chief Technology Advisor, Social Alpha enlightened the audience with current technological advancements and interesting applications in Photonics. During the final session, the participants were given hands-on training on various optical experiments arranged by the MSc. and MTech students of ISP. The programme concluded with a valedictory function where the participants gave their valuable feedback.

Photo Caption: Dr. P. G Sankaran, Pro-Vice Chancellor, Cochin University of Science & Technology inaugurating PhotonTech, a training programme in Optics for higher secondary school teachers conducted by International School of Photonics along with IEEE Photonics Society Kerala Chapter.

PS&RT Emeritus Professor Receives DRDO's Scientist of the Year Award 2020

Dr. Reji John, Emeritus professor, Department of Polymer Science and Rubber Technology, Cochin University of Science and Technology bagged Defence Research and Development Organisation's (DRDO) Scientist of the Year Award- 2020. The award is for developing the state-of-the-art material and device technologies for DRDO's SONAR Programmes.

He has been in the lead role in the development of various state-of-the-art materials technologies including smart materials and device.

He has made several inventions and obtained 20 patents in various countries such as USA, UK, Japan, France and India. He worked with NPOL, Kochi as senior scientist and Director (Materials). In recognition of the exemplary science and technology invention capabilities and technology leadership qualities exhibited by the officer, Dr. Reji John is conferred the 'Scientist of the year award 2020' by DRDO. Prior to this award, he also obtained Gov. of India, Minister of chemicals and Fertiliser's 'National Innovation Award -2021'.

DR. REJI JOHN

Heavy Rainfall Can be Forecast Using GPS Signal: Researchers

DR. SUNIL P S

ROSE MARY

Researchers in the Department of Marine Geology and Geophysics of the University say that, apart from the navigational purpose, Global Positioning System (GPS) could be used to forecast phenomena such as extreme rainfall events.

This research was conducted by Ms. Rose Mary under the supervision of Dr. Sunil P S Associate Professor, Department of Marine Geology and Geophysics, in collaboration with the National University of Singapore, Space Application Center, India Meteorological Department, Airport Authority of India and Indian Institute of Geomagnetism. The research results have been published in the Journal of Earth System Science by Springer Publishers.

A rapid increase in atmospheric water vapour is a fundamental factor connected to natural phenomena such as extreme rainfall. During rainy season, when the GPS signals from the satellite pass through the atmosphere and reach the GPS receivers on the Earth surface, there is usually a delay in the GPS signal associated to the amount of water vapor in the atmosphere before it reaches the receivers. The present study using the continuous GPS and rainfall data at Trivandrum, Kerala shows that any heavy rainfall events can be detected in advance around 5.45 hours to 6.45 hours using the delay in GPS signal. In this investigation, about 8 extreme rainy events have been studied by the group, including the extreme rainfall event that caused the disastrous August 2018 floods.

Dr. Sunil says that, in foreign countries, this advanced technology called GPS Meteorology is being used very effectively. However, in India it has not yet started. The study exhibits that GPS Meteorology could be effectively used for the real-time/short-term early detection of heavy precipitation events in future.

Two-day Public Law Lecture Series

The Public Law Lecture series 2023 organised by School of Legal Studies began on March 8 with Justice Bechu Kurian Thomas, Judge, High Court of Kerala inaugurating the programme. V Giri, Senior Advocate, Supreme Court of India & Former Judge, High Court of Kerala delivered a lecture on the topic, 'The Concept and Utility of Constitutional Morality as an Interpretive Device'. Dr. K N Madhusoodanan, Vice Chancellor, Gopalakrishna Kurup Advocate General and Prof. K C Sunny, Dean, Faculty of Law, spoke.

The speakers opined that constitutional ethics should be the basis for interpreting all sections of the constitution. Quoting Ambedkar, V Giri opined that constitutional ethics should have a core influence on law-making as well.

Public Law Lectures is an annual flagship event of the School of Legal Studies. The event comprises a series of three lectures on areas of contemporary relevance from the field of public law such as Constitutional Law, Administrative Law, Environmental Law, or Labour Law. Dr. K C Sunny, Dean, Faculty of Law, CUSAT, Dr. Balakrishnan K, Associate Professor of Law, NUALS, Kochi and Dr. N S Soman, Former Dean, Faculty of Law, CUSAT chaired this year's sessions. Gopalakrishna Kurup, Advocate General of Kerala, Prof. K C Sunny, Dean, Faculty of Law and Dr. Harisankar K. S, Assistant Professor, School of Legal Studies spoke on the occasion.

National Symposium on Materials for Sustainable Future

A national symposium entitled 'Materials for Sustainable Future' and a farewell meeting (MSF-SKN) were organised by Department of Polymer Science and Rubber Technology on May 11 to honour Prof. Dr. Sunil K Narayanankutty, who retired from the Department after 33 years of commendable service.

The two-day national symposium to celebrate the contributions of Prof Dr. Sunil K Narayanankutty, (MSF-SKN) witnessed a colorful launching on

Wednesday. The event was inaugurated by Prof M K Jayaraj, Vice Chancellor, University of Calicut. Prof K N Madhusoodanan, former Vice Chancellor of CUSAT, Prof Sabu Thomas, Vice Chancellor, Mahatma Gandhi University, former faculty members of the Department and Alumni of the Department, etc. were attended the Symposium. The inaugural session was followed by plenary lectures delivered by honourable speakers representing institutions such as IISc IIT, NIT, IIST, etc.

Long-awaited Medical Centre Inaugurated

Madhu S Nair, Chairman and Managing Director, Cochin Shipyard Limited (CSL), inaugurated the new medical centre built at the Thrikkakara campus of the University under the CSL's corporate social responsibility initiative.

The eight-bed facility, built in the Student Amenity Centre at an estimated cost of ₹23.75 lakh was sponsored by Cochin Shipyard Limited under its CSR initiatives to be executed by CUSATECH Foundation, a Section 8 company formed by CUSAT. The facility is meant for students, faculty and staff in the campus and for the general public living on the premises.

The medical centre was inaugurated at 5 pm on March 7 in the presence of Vice Chancellor Dr. K N Madhusoodanan, Pro-Vice Chancellor Dr. P G Sankaran, Registrar Dr. V Meera, Syndicate members, staff and students of the university.

The facilities at the centre include a nursing room, a doctor's consultation room and an emergency care facility with eight beds. The services of a doctor and nurse will be available at the facility. The centre will be the first port of call on the campus to provide preliminary treatment.

Expressing happiness that the medical centre opening marks the end of a long-awaited dream of the university, Vice Chancellor Dr. K N Madhusoodanan said, "CUSAT has been proactive in designing and implementing activities in line with their Environmental, Social and Governance (ESG) concerns. More companies should join hands with the university in meeting their CSR requirements."

It was in May 2022 that a memorandum of understanding (MoU) was inked between CSL and CUSAT to establish a facility on the campus with CSR funding support. The project aligned with the Sustainable Development Goals of the United Nations and would fit into Schedule VII of the Companies Act 2013 (Section 135) which prescribes activities that fall under the ambit of CSR.

Discussion on Waste Management in Local Institutions

C-SiS Nature Brigade, an environmental club at Center for Science in Society (C-SiS), organised a panel discussion on 'Waste Management in Municipalities' on February 22.

While delivering the Key note address, Prof. Usha K Aravind, Director, School of Environmental Studies, CUSAT said, "Waste management is not an issue without a solution, but for that, our habits need to change radically. No amount of funds spent on projects will be beneficial without instilling such a culture in children". C-SiS Director Dr. Shaiju P inaugurated the programme. P. A Thankachan, Director, Mulanthuruthy Science Centre, Tom George, Chief Sub-Editor, The Fourth and Dr. Abesh Raghuvaran spoke.

459 Participate in 32nd CUSAT International Chess Tournament

The 32nd CUSAT International Chess Tournament jointly organised by the Department of Sports Education and the CUSAT Chess Club was held from May 27 to 30. The programme was inaugurated by P G Sankaran, Vice Chancellor, CUSAT. R Rajesh, All India Chess Federation Joint Secretary was the Chief guest.

459 contestants from different states participated in two rounds. Brahmaiah. V. J (84 years) from Karnataka is the oldest contestant in the competition, and the youngest being Devanarayanan (6 years) and Sana Vijesh (6 years) from Kerala. CUSAT Chess is the oldest Fide rated Chess Tournament in India.

DRDO-Academy Excellence Awards Announced

In May, CUSAT was selected for the prestigious Defence Research and Development Organisation (DRDO) Academy Excellence Awards for the year 2020 in the category of academic institutions. The award is given to an academic institution or team from academic institution for technology excellence of innovative nature related to Defence R&D. The collaborated work of CUSAT with Naval Physical Oceanography Laboratory (NPOL) in the key areas have been going on since decades.

A six membered team lead by former Vice chancellor Dr. K N Madhusoodanan has brought this glory to CUSAT. Dr. Honey John, Professor, Department of Polymer Science and Rubber Technology, Hon. Director, Inter University Centre for Nanomaterials and Devices, & Coordinator of MHRD-DRDO Research fellowship scheme at CUSAT, Dr. K Girish Kumar, Professor, Department of Applied Chemistry, Dean Faculty of Science & Director IQAC, Dr. Kailasnath, Professor, International of Photonics, Dr. Madhu S Nair, Professor, Department of Computer Science, Dr. V G Reju, Associate professor, Department of Instrumentation are the other members of the team.

DR. KAILASNATH

DR. MADHU S NAIR

DR. HONEY JOHN

DR. K GIRISH KUMAR

DR. V G REJU

DR. K N MADHUSOODANAN

This award is in recognition of the unparalleled contributions of the team to fill the technological research gaps of NPOL. To further strengthen the collaboration with NPOL and DRDO, CUSAT has signed MoU with NPOL and currently there are Ph.D scholars working under it directly.

Five-day Workshop Held on Access to Medicine, TRIPS, Patents in Developing World

The five-day workshop on Access to Medicine, TRIPS and Patents in the Developing World organised by Inter-University Centre for IPR Studies (IUCIPRS), Cochin University of Science and Technology (CUSAT) in association with Third World Network, concluded on June 7.

The main objective of the workshop was to provide a deep understanding of the intricate linkage between access to medicines and the barriers presented by intellectual property legal and policy frameworks. The workshop

was attended by diverse participants from academic, research and like-minded people across India, with an aim to develop their understanding of intellectual property legal and policy frameworks in the context of access to medicine.

Dr. P G Sankaran, Vice Chancellor, CUSAT, inaugurated the workshop on June 3. Prathibha Subrahmaniam, Researcher, Third World Network, Dr. M Bhasi, Director, IUCIPRS and Dr. I G Rathish, Assistant Professor IUCIPRS, spoke on the inaugural day.

Two-Day Workshop on Qualitative Research Methods and Tools at Applied Economics

Department of Applied Economics conducted a two-day workshop on 'Qualitative Research Methods and Tools' on June 8 & 9. Prof. Dr. Sam Thomas, Dean of Social Science, inaugurated the workshop. Dr. P K Manoj, Head of the Department, Applied Economics, Assistant Professors Dr. P R Suresh, Dr. Aswathy Rachel Varghese and Taibah Haidary, Afghan Research Scholar, spoke on the occasion. Dr. Nikhil P N, Research officer, Population Research Centre, University of Kerala, Thiruvananthapuram, was the resource person for the workshop. More than 30 research scholars across various universities and higher education centres in the State attended the workshop.

Glorious Achievement for B.Tech Students

In a proud moment for the University, 75% of the students who appeared for the 2023 B.Tech final exam passed with flying colours. The results of 8 B Tech programmes in CUSAT namely Electronics and communication, Computer science, Safety and Fire Engineering, Information Technology, Civil Engineering, Electrical Engineering, Mechanical engineering and Instrumentation Engineering have been announced.

Computer Science and Instrumentation streams have the highest pass percentage (97 %). CUSAT's is one of the few engineering institutions from Kerala to be awarded Tier 1 accreditation by NBA. The University is also the first educational institute in Kerala to get Tier-1 accreditation.

The toppers list in various B.Tech programmes.

Electronics and Communcations-Bhavani Krishna J.S, Computer Science-Linda Rose Jinson, Safety and Fire- Shivam Kumar, Information Technology- Pooja. R Suresh, Civil Engineering- Srilakshmi.A, Electrical Engineering- Vishnu Narayanan, Mechanical Engineering- Abhijith Vijayan, Instrumentation- Athila Raheem E.


BHAVANI KRISHNA J S


POOJA R SURESH


VISHNU NARAYANAN


SHIVAM KUMAR


LINDA ROSE JINSON


ABHIJITH VIJAYAN


SRILAKSHMI A


ATHILA RAHEEM E

MoU Entered with University of Ruhuna

A Memorandum of Understanding (MoU) for academic and research engagements between Cochin University of Science and Technology and University of Ruhuna in Sri Lanka on June 15.

The MoU was signed by Dr. P G Sankaran, Vice Chancellor, CUSAT and Dr. Sujeewa Amarasena, Vice Chancellor, UoR, in Sri Lanka in the presence of Senior Prof. Dr. S Bijoy Nandan, Dean Faculty of Marine Sciences, CUSAT, P S Kalugama, Registrar, UoR. The programme was attended by Prof. E P S Chandana, Deputy Vice Chancellor, Prof. T B Terney Pradeep Kumara, Director, Centre for International Affairs, UoR; Dipin P R, Consulate General of India, Hambantota, the Deans of other faculties, teachers and staff of the University.

The MoU decided to facilitate specific academic exchange and partnership, research collaborations, in areas of fisheries and marine science and technology, marine engineering and naval architecture. The deliberations also decided to strengthen the academic curriculum, research capabilities and financial support for the fisheries and marine science and technology, marine engineering and naval architecture.

Gopal Baglay, High Commissioner of India, Colombo, Sri Lanka and Dipin P R, Consulate General of India, Hambantota, were instrumental in coordinating and successfully completing the MoU by the two Universities.

After signing the MoU, the Vice Chancellor and the Dean of Faculty of Marine Sciences, CUSAT, also held discussion on the proposed academic and research initiatives of the two Universities with Dr. A D Susil Premajayantha, Minister of Education, Sri Lanka.

The meeting was also attended by Gopal Baglay, High Commissioner of India, Colombo, Sri Lanka and other officials of the University Grants Commission, Sri Lanka.

The Minister expressed immense satisfaction on the collaboration by the two Universities and further solicited support of the Indian High Commission and CUSAT to strengthen current academic and research capabilities of UoR as well as the Ocean University of Sri Lanka.

Students Clean Puthuvype Beach on World Ocean Day

As part of World Ocean Day, more than 60 students from Cochin University of Science and technology took part in a clean-up drive at Puthuvype Beach on June 8. The beach clean-up was organised by the School of Industrial Fisheries in CUSAT, Elamkunnapuzha Grama Panchayat and the Vypin Beach Club.

A special visit by the Marine Stewardship Council, the global not for profit organisation for sustainable fisheries and seafood, was also part of the event. Vowing to conserve oceans, all participants wrote their own pledges.

Dr. Santhosh Kumar G Visiting Scholar at Queen's University


DR. SANTHOSH KUMAR G

Dr. Santhosh Kumar G, Professor, Department of Computer Science, was conferred the title Visiting Scholar of Queen's University, Belfast, UK. He recently visited Queens University and the University of Glasgow based on a collaborative project. He has been associating with Queen's University on projects related to fake news detection. Many AI models are currently being trained on data that applies to Global North and carries cues from the Western world; hence the results will be biased. As an outcome of the association with the Queen's University, he was able to coauthor a couple of research papers and Springer books on 'Data Science for Fake News' and 'Responsible Data Science'. The position will help the Department of Computer Science, CUSAT, to continue collaborating with the School of Electronics, electrical and computer science in the areas of Explainable AI and making AI models workable for fake news detection in the context of the Global South. The Office of International Relations initiated an MoU with Queen's University, which will help more research collaborations and student exchanges

Patent Grant for Block Chain-Based Secured Cooperative Farming System


DR. SANTHOSH KUMAR


SREEDEVI T R

Dr. Santhosh Kumar M B, Professor, Division of Information Technology, School of Engineering, Cochin University of Science and Technology and Sreedevi T R, research scholar, bagged a patent grant for a blockchain-based secured cooperative system. The blockchain can be used in cooperative farming where a single land is used by a group of member farmers. The system will manage the financial transactions in the collective bank account of the farmers and the cooperative society who buy or take land on lease. All the transactions for procuring the resources, maintenance of the farming equipment, additional labour charges, etc can be done in a transparent way using this innovative method. The blockchain ensures accountability and integrity in all the expenses and transactions done by farmers on the land owned by all of them. In the private block chain network, each member acts as nodes and a set of verifying nodes who are the authoritative members for verification are assigned by the farmers themselves.

STREAM Ecosystem Inaugurated

An innovative teaching-learning approach is being implemented in the schools of the State with the aim of creating a suitable environment for thinking, learning and applying science concepts in the context of everyday life. Samagra Shiksha Kerala, for the Department of Public Education and Cochin University of Science and Technology, as part of the higher education sector joined hands to launch the first 'STREAM Ecosystem' project in Alappuzha district. The STREAM Ecosystem is the first project in the country to bring together the higher education and public education sectors to create effective, scientific and applied research.

Minister of Education V Sivankutty, inaugurated the state-level launch of STREAM ecosystem project on March 25 at 4 pm in Pollethai Govt. High School, Alappuzha. The children of all the public schools of the district will benefit from the scheme and CUSAT' s technical assistance, supervision, equipment and support will be ensured.

Research Scholar Chosen for Wharton Global Faculty Development Programme


ARATHI KRISHNA

Arathi Krishna, research scholar under the guidance of Dr. Devi Soumyaja, Assistant Professor, School of Management Studies, Cochin University of Science and Technology, was in June selected to participate in the Wharton Global Faculty Development Programme. Wharton Global Faculty Development Programme is an annual workshop sponsored by Wharton Global Initiatives of Wharton Business School that aims to assist in the professional development of young scholars at schools outside the US. The focus of the programme is to facilitate publication in the leading academic journals in management and related areas. Arathi is an Assistant Professor at Kochi Business School.

Navakerala Post-doctoral Fellowship 2022: Highest Number of Fellowship Winners from CUSAT

In a proud moment for CUSAT, 13 researchers won the Nava Kerala Post-doctoral Fellowship (PDF)- 2022, instituted by the Government of Kerala to promote research conducive to the holistic development and modernization of the state. In the second phase, the Nava Kerala PDF of the Chief Minister is granted to 68 students. Researchers from CUSAT have bagged the highest number of fellowships among the universities in Kerala. The fellowship is provided by the Kerala State Higher Education Council (KSHEC).

At a function presided by Dr. V Meera, Registrar, CUSAT, Dr. P G Sankaran, Vice Chancellor, CUSAT, felicitated the researchers. Speaking at the event, the Vice Chancellor observed that it was a proud moment for CUSAT. "From around 350 recommendations, 68 were chosen for the fellowship and 13 of those were bagged by CUSAT, making the university the institution to have won the most number of scholarships. Its the responsibility of research scholars to make use of the schemes and grants introduced by the central and state governments to give back to society," he added.

THE WINNERS OF CHIEF MINISTER'S NAVA KERALA POST-DOCTORAL FELLOWSHIP FROM CUSAT WITH VICE CHANCELLOR DR P G SANKARAN AND OTHER UNIVERSITY OFFICIALS

The winners of Chief Minister's Nava Kerala Post-doctoral Fellowship from the university are Dr. Nisa James from School of Management Studies (mentor: Dr. Jagathy Raj V.P), Dr. Salini K from National Centre for Aquatic Animal Health (Mentor: Dr. Jayesh Puthumana), Dr. Divya Jose from National Centre for Aquatic Animal Health (Mentor: Dr. Valsamma Joseph), Dr. Vijayasree Haridas from Inter University Centre for Nanomaterials and Devices (Mentor: Dr. Honey John), Dr. Jiya Jose from Department of Biotechnology (Mentor: Dr. Saritha G Bhat), Dr. Fathima Beevi R from Department of Hindi (Mentor: Dr. Gireeshkumar K.K), Dr. Roshni K from School of Environmental Studies (Mentor: Dr. Suja P Devipriya), Dr. Lakshmi G from National Centre for Aquatic Animal Health (Mentor: Dr. Jayesh Puthumana), Dr. Sreekumar Haridas from Advanced Centre for Atmospheric Radar Research (Mentor: Dr. Manoj M.G), Dr. Aneesa P.A from Centre for Neuro Science (Mentor: Dr. Baby Chakrapani), Dr. Gayathri Krishna from Department of Biotechnology (Mentor: Dr. Mohanan Valiya Veettil), Dr. Martin G.D from Chemical Oceanography (Mentor: Dr. Shaju S.S) and Dr. Saranya P from School of Engineering (Mentor: Dr. Job Thomas).

IUAC Acquaintance Programme & One Day National Workshop

The Department of Physics in August conducted a IUAC Acquaintance Programme & One Day National Workshop on Accelerator Based Science Research in association with Inter University Accelerator Centre, New Delhi.

The idea behind the programme was to familiarise various research facilities at IUAC in different fields of science, mainly in nuclear physics, materials science, radiation biology, accelerator mass spectrometry, atomic physics, and health physics, and to understand the opportunities in accelerator-based science research.

Scientists from IUAC, New Delhi, Dr. Akhil Jhingan, Dr. D Kabiraj, and Dr. Pankaj Kumar explained about the research the facilities, especially Accelerators and Nuclear Physics Research Facilities, Materials Science and Radiation Biology Related Research Facilities, Accelerator Mass Spectrometry (AMS), Geochronology and Elemental Characterization facilities at IUAC.

They also discussed different research opportunities for BSc and MSc students at IUAC.

The speakers presented their research work conducted at IUAC.

Dr. Preetham Awarded UK International Project Grant Worth £50,000

Dr. Punnadath Preetham, Associate Professor, Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, was awarded the Veterinary Network Catalyst Project Grant, 2023, from United Kingdom, for the project 'Enhanced vaccine efficacy against Streptococcus agalactiae by molecular adjuvants for tilapia aquaculture in Low and Middle-Income Countries (LMICs)'.

The project came with an initial grant offer of £50,000 for one year period with Industrial partner Epitogen X Limited,UK, and Academic partners University of Aberdeen, University of Stirling (Scotland, UK), Nord University, (Norway), Mahasarakham University, (Thailand) and CUSAT (India) are the partners for this awarded project.

The project aims to improve the sustainability of tilapia aquaculture in India and other Asian countries, by

developing high quality cross protective vaccine against bacterial diseases prevailing in farmed tilapia. Streptococcosis has emerged as one of most important bacterial diseases for tilapia aquaculture, for which there is no commercial vaccine. The project focuses on developing a novel injection vaccine formulation by incorporation of molecular adjuvants that may enhance the immune response to the vaccine leading to long-lasting protection against Streptococcus in Tilapia. The cross protectivity of the vaccine against different strains of Streptococcus will be highly demanding for future applications in commercial vaccination. This project will bring together partners from India, UK, Norway and Thailand with a diverse range of expertise relating to tilapia health who will work collaboratively to prove the novel concept of vaccine delivery for the prevention and protection against bacterial disease. This study is focused to commercialise the vaccine to potentially control bacterial infections to allow sustainable expansion of India's tilapia aquaculture industry.

Workshop on Organic Fertilizer, Kitchen Garden Maintenance

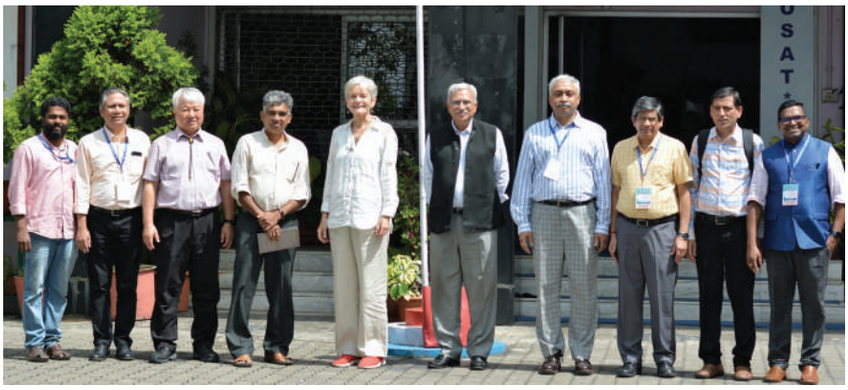
As part of promoting organic farming, Department of Electronics, the University NSS Unit and Ishtamaram Foundation jointly organised a workshop on conversion of kitchen waste into vermicompost as part of organic farming, maintenance of kitchen garden and training on innovative farming methods. As part of the programme, the state government's 'Onathinu Oru Muram Pachakkari' was initiated. Agri Feeds Kassery organised the distribution of earthworm compost fertilizer and saplings provided by Agro Industries Kuthatukulam were planted.

Dr. Deepti Das Krishna, Head of Electronics Department, presided over the event. Dr. PG Sankaran, Vice Chancellor, inaugurated the programme. Ishta Maram Foundation Chairman Babu Thattarkunnel explained the project. M. K Sudhi, Section Officer, P Y Anil,

Maintenance Engineer, and Dr. Thripti S Warrier, NSS Programme Officer, spoke.

K B Sasidharan, winner of Kerala Government's Best Farmer Award, and Matthai P C, Kalamassery Krishi Bhavan Assistant Officer, imparted training on earthworm composting, kitchen garden management and advanced farming techniques to the University staff, teachers and NSS volunteers who participated in the workshop.

Geological Research Need of the Hour: Dr. N Kalai Selvi



"Climate change and greenhouse effect are challenging the environmental balance necessary for clean human life," said Dr. N Kalai Selvi, inaugurating the Indian Geophysical Union's 60th Annual Conference in Department of Geosciences at the School of Marine Science. "Geological research needs to be done seriously in an era where scarcity and non-availability of fossil fuels and natural minerals are becoming a crisis in economic and social resource distribution," she added.

"Kerala and Cochin University of Science and Technology are proud to host the Diamond Jubilee Annual Conference of the Indian Geophysical Union at this time of radical transformation in the field of geosciences," said Prof. Lisa Greyumlich, President, American Geophysical Union.

The theme of this year's meeting of the International Geological Congress is "A united earth that stands for human survival and environmental and social needs beyond national boundaries," as announced by Prof. Dr. Taekyo Cheong, President, International Geological Congress.

Dr. Shailesh Naik, Former Secretary of Union Ministry of Geosciences and President of Indian Geophysical Union presided over the function. Dr. PG Sankaran, Vice Chancellor , CUSAT, Dr. Abhey Kumar Bansal, Secretary, Indian Geophysical Union and Dr. A A Muhammad Hatha, Director, Marine Science and Programme Convenor spoke.

More than a thousand delegates from India and abroad participated in various programmes and discussions as part of the conference, held from November 22 to 24. Prof. Somnath Dasgupta, Dr. Ranjith Ram, Dr. M Ravichandran, Dr. Abhishek Saha, Dr. Labani Rai, Dr. Uma Shankar received various awards for the outstanding contribution in earth research. The latest research activities, advances and future activities in the field of Earth Sciences were actively discussed in the three-day scientific conference.

₹50 Lakh Grant for CEAM Lab Renovation

The Centre of Excellence in Advanced Materials (CEAM) received a grant of ₹50 lakh instituted by the Ministry of New and Renewable Energy (MNRE) for lab renovation. Along with IIT Kanpur and IIT Roorkee, only Jamia Millia Islamia University and CUSAT received the grant in university category.

The MNRE selected CUSAT for this grant based on the project proposal submitted for the grant and the various courses and research achievements of the University in the field of renewable energy. CEAM Director Dr. Aldrin Antony said that through this project, innovative equipment would be installed in the centre which will be useful for masters students and research students. CUSAT was also chosen by the Ministry for Renewable Energy Fellowships 2023.

670 Fruit Saplings Planted across Campus

On July 27, the University planted 670 fruit saplings across the campus in association with Social Forestry Division, Ernakulam. The plantation drive, sponsored by Kochi Metro Rail Ltd, is an extension of the plantation drive carried out in 2022 named Smrithi Vanam planting 2800 saplings on a four-acre land. The University has also initiated bamboo plantation on 2 acres of land sponsored by the Kerala Forest Research Institute.

A Jayamadhavan, Deputy Conservator of Forests, Social Forestry Division, Ernakulam, launched the initiative along with Dr. P G Sankaran, Vice Chancellor.

MoU Inked with Infenox Technologies

The Department of Computer Science in July signed an MoU with Toronto Head Quartered Infenox Technologies, a leading North American Information Technology organization, having their offshore delivery centre in Infopark Kochi.

With presence in USA, Canada, South America and India, Infenox Technologies is one of the fastest growing IT Services leaders based out of Canada. They operate with services in digital transformation, cloud computing, omni channel commerce, and product development.

"In order to deepen the link between academia and industry, the Department of Computer Science at CUSAT has already established partnerships with reputable IT companies and created a policy that is now a part of the curriculum. Because of our collaboration with Infenox Technologies, our students will have access to the most recent technologies and get a chance to be hired by this reputed IT company," said Dr. Madhu S Nair, Head, Department of Computer Science.

PROF. DR. SANTHOSH KUMAR G, DEPT. OF COMPUTER SCIENCE, PROF. DR. MADHU S NAIR, HOD DEPT. OF COMPUTER SCIENCE, AJITH KUMAR MANAGING DIRECTOR AND CEO, INFENOX TECHNOLGIES INDIA, JOHN JOSEPH CHAIRMAN AND GLOBAL CEO, INFENOX TECHNOLOGIES IN THE MOU SIGNING FUNCTION.

"With a vision to develop right talents suitable for the industry, Infenox Technologies is committed to engage with CUSAT in a most efficient and professional way to provide opportunities for the students to experience our world class facilities, international business culture, cutting edge technologies and well defined processes," said John Joseph, Group Chairman and CEO of Infenox Technologies. He also added that right talents get opportunities to work with Infenox for their internship trainings in our offices in India and Canada.

Students who meet our selection criteria will also get permanent job opportunities with Infenox Technologies.

Ajith Kumar, Managing Director & CEO of Infenox Technologies India said that the industry academia partnership between CUSAT and Infenox will provide students to get exposure to the North American standards, work culture and experience in working with latest technologies and interacting with experts from Infenox, there by transforming them in to committed professionals. At the same time, Infenox will have the advantage of having fresh engineers who are groomed in-house with North American culture who are deployable to client projects in short span of time.

ACARR Student to Present Paper at International Conference

PRAJWAL K

Prajwal K, PhD fellow from Advanced Centre for Atmospheric Radar Research (ACARR), bagged a unique opportunity to present a research paper at the Asia Oceania Geosciences Society (AOGS) conference held at Singapore from July 30 to August 4. This is one of the biggest conferences in Asia attended by world-renowned researchers and scientists. The theme of the conference encompassed a wide range of topics in the Earth and atmospheric sciences.

Prajwal is pursuing his PhD under the guidance of Dr. Ajil Kottayil at ACARR. He work is on sub-seasonal variability within the Asian monsoon which has been deduced using distinct wind precipitation regimes.

One-day Training Programme on Good Laboratory Practices

Prof. N R Madhava Menon Interdisciplinary Centre for Research Ethics and Protocol (ICREP), Mahatma Gandhi University, and Kannur University jointly organised a one-day training programme on 'Good Laboratory in September.

Prathap Kumar K S (Rtd. Asst. Station Office), Prof. Dr. Jayachandran K. (School of Biosciences, MG University), Prof. Dr. Yoosaf K., (Applied Chemistry, CUSAT), and Radhakrishnan G. (Freelance Consultant in Industrial Safety) led the sessions on 'Good Laboratory Practices'.

Passing Out Ceremony for 16th Batch BTech, 8th Batch MTech Students at KMSME

"As ambassadors of the institution, more than academic excellence, the responsibility of the cadets in the ship includes considering every day as a learning opportunity. One needs to keep learning to be ready to shoulder the responsibilities they are bestowed with," said Sajan P John, Chief Operating Officer, Kochi Water Metro Ltd, who was the chief guest at the passing out ceremony of the 16th batch of BTech Marine Engineering and 8th batch of MTech Marine Engineering students at the Kunjali Marakkar School of Marine Engineering (KMSME) on August 25. As many as 28 cadets graduated from the School on Friday.

"It's a matter of pride that 85% of the graduating students have been placed on board ships by reputed shipping companies," Sajan added.KMSME is the only state-owned government university in the country conducting marine engineering programmes.

Addressing the gathering, Vijendra Kumar Jain, president, Institute of marine Engineers (India), expressed joy over the achievements of the School and the students. "Self-belief and perseverance are important in the journey towards the future," he said.

THE EVENT WAS A GRAND GET-TOGETHER OF THE CUSAT FAMILY WITH THE PRESENCE OF FORMER VICE CHANCELLORS, RETIRED AND SERVING STAFF AND STUDENTS.

CUSAT Vice Chancellor Dr. P G Sankaran presided over the function and handed over the merit and course certificates to the cadets. Prof. R Venugopal, Director, KMSME, welcomed the gathering. Dr. V Meera, Registrar, Dr. K A Simon, Director, Albert's Maritime Institute, Kalamassery, and Sivaram N, General Manager, Cochin Shipyard Ltd, offered felicitations. Prof Jis George, course-in-charge, KMSME proposed the vote of thanks.

Study on Digital Empowerment of Differently-abled

CUSAT, in association with Indian Council for Social Science Research, was part of a study jointly conducted by various universities on the digital empowerment of the differently abled.

DR. HARISH N RAMANATHAN

The study was granted ₹14 lakh for the research that spans over 6 months and covered the states of Kerala, Tamil Nadu, Karnataka and Goa as part of the Digital India programme.

The research team consists of Dr. Harish N Ramanathan, Associate Professor, School of Industrial Fisheries, CUSAT, Dr. Santhosh Kumar N., Associate Professor, SRM University, Chennai, Dr. Simi Kurian, Associate Professor, Jain University, Bengaluru, and Dr. Gargi P Sinha, Assistant Professor, Dhyanavardini Divyang Training College, Goa.

The six month research is coordinated by SRM University.

₹50 Lakh ICMR Grant for Biomedical Research


PROF. FRANKLIN R JOHN


PROF. NILESH J VASA


DR. MAYA NANDAKUMAR


DR. RAMESH P


ERFAN N

The Indian Council of Medical Research (ICMR) has granted a substantial research grant of ₹50 lakh to an ambitious collaborative research project focusing on the development of superhydrophobic biomaterial. This groundbreaking initiative is set to revolutionise the field of Urology in medical science and significantly impact the domain of urinary implants to address infections and medical complexities.

The research project, a joint effort by CUSAT, Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram and Indian Institute of Technology (IIT), Madras, boasts of an exceptional team comprising of Prof. Franklin R John, School of Engineering, CUSAT, as Principal Investigator, Dr. Maya Nandakumar A, Scientist and Dr. Ramesh P, Scientist, as co-investigators from Sree Chitra Tirunal Institute for Medical Science and Technology. Additionally, Prof. Nilesh J Vasa, Dean of IIT Madras, and Erfan N, PhD research scholar from School of Engineering, CUSAT, are key contributors of this collaborative effort.

The core objective of this project is to pioneer the discovery of a superhydrophobic biomaterial that holds immense promise for achievements in urology. By developing innovative solutions for urinary implants, the research team aims to tackle infections and complications that often arise in this critical medical field. The application of superhydrophobic materials could potentially revolutionise the way urinary implants are designed and utilised enhancing patient outcomes and minimising risks.

The Indian Council of Medical Research's endorsement of this research project underscores its potential to reshape the medical landscape and improve the lives of countless individuals. The collaborative effort and cross institutional partnership between CUSAT, Sree Chitra Tirunal Institute for Medical Science and Technology, and IIT Madras showcases the power of synergy and knowledge exchange in addressing pressing medical issues.

Marine Students Collect 250 kg of Plastic Debris from Fort Kochi Beach on International Coastal Clean-up Drive

International Coastal Clean-up Day was organised jointly by the Department of Marine Biology, Microbiology and Biochemistry of the School of Marine Sciences, School of Industrial Fisheries, Cochin University of Science and Technology (CUSAT), and the National Centre for Coastal Research (NCCR), Chennai, and Plan@earth.

As part of the event on September 16, the Fort Kochi Beach was cleaned by nearly 100 volunteers, including students and faculty members of CUSAT and CIFNET. Approximately 50 gunny bags of marine debris weighing nearly 250 kg, which includes plastic debris, bottles, glass bottles, thermocol, plastic ropes, fishing nets, footwear, straws, etc were collected. The segregated waste was transferred to Plan@earth, an NGO at Aluva that deals with solid waste management for proper recycling.

The beach clean-up drive was inaugurated by Fort Kochi MLA K J Maxi, who highlighted the importance of avoiding the use of single-use plastic and the need to reduce the burden of plastic menace from the coast. Antony Kureethara, councillor, Fort Kochi, commended the initiative.

International Recognition for Chemistry Alumnus who Secured Global Talent Visa

DR. SHALINI

Dr. Shalini Menon, an alumnus of CUSAT and founder of startup M/S ChemSensoRR, has achieved international recognition by securing a prestigious Global Talent Visa in the UK. Dr. Shalini, who completed her M.Phil, Ph.D., and CSIR Postdoctoral Research Associateship at the Department of Applied Chemistry, under the guidance of Dr. K Girish Kumar, has been working as a scientist at the University of Nottingham, UK for the past two years. She was endorsed by the esteemed Royal Academy of Engineering, UK, for this visa.

Winning the prestigious Global Talent Visa underscores the extraordinary calibre of Dr. Shalini and the profound impact she has made in the fields of research and entrepreneurship. This visa is not just a recognition of her exceptional abilities but also signifies the global importance of nurturing and supporting talent in science, technology, and innovation. The visa benefits include international recognition in scientific and entrepreneurial landscapes, unparalleled flexibility to work independently or with various organizations that foster innovation and entrepreneurship, expedited application process to commence work or research in the UK, permanent residency or citizenship in three years, access to public funds and collaborative opportunities.

Dr. Shalini has to her credit nine years of educational and hands-on experience in developing chemical and biosensors, 14 scientific papers in esteemed, peer-reviewed journals and several awards at various national and international conferences. Her company ChemSensoRR has been recognized as one of the TOP100 companies in the UK-India Tech Startup programme and has earned her the prestigious CUSAT-RUSA start-up grant in 2020. The company has developed a functional prototype of a Portable Programmable Electrochemical Sensor Device for Point-of-Care Management of Neurological Disorders. As a Postdoctoral Research Fellow at the University of Nottingham, Dr. Shalini's work involves the application of diamond quantum sensors in life sciences and biochemical research, with a particular focus on studying mitochondrial function in mammalian cells. This research not only enhances our understanding of the aging process but also holds immense promise for discovering new therapeutics, especially for neurodegenerative diseases.

A native of South Chittoor, Ernakulam, Shalini is the daughter of retired Keltron senior engineer Somasekharan C P and retired school teacher Shanta Menon. Her husband Sreejith Nandakumar is a Senior Capacity Planning Manager at Amazon, UK.

Workshop on Patent Opposition in Pharmaceutical Field

The Inter-University Centre for IPR Studies (IUCIPRS) organise a five-day workshop on Access to Medicine, TRIPS and Patents in the Developing World from August 4 to 8. The workshop's main objective was to provide the participants with understanding the concept of patents and relevance of pre-grant opposition, and to develop human resources for drafting and filing of pre grant opposition to pharmaceutical patents in India. The workshop was attended by diverse participants from academic, research and like-minded people across India.

Graduation Day Held at SoE

The graduation day celebration of School of Engineering was held on July 7 at the Seminar Complex. Madhu S Nair, Chairman and Managing Director of Cochin Shipyard, was the chief guest of the graduation ceremony in which around 400 students were awarded Doctorate, M.Tech and B.Tech 2022-2023.

Dr. P G Sankaran, Vice Chancellor, presided over the function. Dr. Meera V, Registrar, Dr. Benjamin Varghese, Controller of Examinations, Dr. Narayanan Namboothiri, Dean, Dr. Dipak Kumar Sahoo, Principal, and Sasi Gopalan, Syndicate member, spoke. The students who secured the highest marks in each branch were specially felicitated in the function.

Sasthradeepthi Talk Series Begins in All-India Radio

Aiming at taking the groundbreaking research and activities in science and technology to the public, CUSAT, in association with All India Radio (AIR), started a science talk series aired on Akashvani Kochi FM 102.3 twice every week.

The programme, titled Sasthradeepthi, is being broadcast on Mondays and Fridays since September 22.

Launching CUSAT's collaboration with AIR, Vice Chancellor Dr. P G Sankaran noted that initiatives like these will be beneficial in countering the pseudo science narratives rampant in society. "This is also a great opportunity to spread the word about the scientific and academic advancements and proud international publications happening among the university community. This will also be beneficial in bringing about a change in social and economic spheres through translational research," he added.

P Balanarayanan, programme head, Akashvani, P R Shaji, engineering head, Akashvani, Dr. P K Baby, Member Syndicate, Dr. K Ajitha, Head of the Department of Hindi, Dr. Harish N Ramanathan, Honorary Director, International Relations, Dr. V Udayakumar, programme coordinator, Akashvani and Dr. Abesh Reghuvaran, Assistant Professor, Centre for Science in Society spoke.

Three-day Music-Acting Workshop Held

A three-day music-acting workshop organised by the Department of Youth Welfare was inaugurated by Shaan Rahman, music director. Music directors Bernie, Shaan Rahman, Lijo Jose, Ranjith Nalapat, Mithun Jayaraj, and Sajna Sudheer conducted classes in various sessions during the three-day music workshop.

Actors Rajesh Sharma, Amal Raj Dev, Dr. Sreejith Ramanan, Faculty, School of Drama, Arun Lal, Director, Little Earth Theatre, Malappuram, and Dr. P K Baby, Director, Youth Welfare Department, conducted various sessions. As part of the workshop, Little Earth Theater, Malappuram presented the play 'Award'.

OSI Best PG Dissertation Award for Marine Geophysics Student

VISHNU MURALI

Vishnu Murali, M.Sc. Marine Geophysics student at the university, received the Best Post Graduation Dissertation Award-2022of Ocean Society of India under the stream on Geological Oceanography. The awarded research work was carried out under the guidance of Dr. Ratheesh Kumar R T, Assistant Professor, Department of Marine Geology and Geophysics. The study provides important findings on the geophysical structure and tectonic evolution of an aseismic ocean ridge 'Cori Comorin Ridge' in the South-Central Indian Ocean.

Vishnu Murali, son of Muraleedharan M (Retd. School teacher, GVHSS, BP Angadi) and S K Raji (Headmistress of P K U M L P S, Thevalappuram), is a native of Tirur, and currently works as a Project Scholar at CSIR National Institute of Oceanography, Goa.

Dr. Baby Chakrapani Wins Indo-German Grant

Dr. Baby Chakrapani P S, Director of the Centre for Neuroscience and Assistant Professor of the Department of Biotechnology, was awarded Indo-German Grant for his proposal on how changes in the system of diverse bacteria found in the gut microbiome affect neuroplasticity and how they lead to degeneration of nerve cells and diseases such as Alzheimer's and Parkinson's disease. The gut microbiome influences neuroplasticity, which is the ability of neurons to reorganize and initiate connections in response to internal and external stimuli. It has been reported that the gut microbiome may play a role in various neurological conditions. The Indo-German Grant is a joint award from the Indian Department of Science and Technology (DST) and the German Academic Exchange Service (DAAD). The award will support Dr. Chakrapani's research for two years and to collaborate with researchers at the Helmholtz Centre for Infection Research in Braunschweig, Germany.

Menstrual Cups Distributed

The University Students Union, in association with 'Keltron', organised a menstrual cup distribution and awareness classes for students. Menstrual cups were distributed to 450 students at Thrikkakara Campus, Lakeside Campus and CUCEK. Minister of Law, Industry and Coir P Rajeeve inaugurated the campaign. Students actively participated in the awareness classes on menstrual hygiene and menstrual health and distribution programmes that followed.

Norway Visiting Fellowship for Three Computer Science Students

NOBLE AUSTINE

OMAL SIVANKUTTY

VIJAY SANKAR BABU

Three students of Department of Computer Science were awarded Visiting Fellowship by Research Council of Norway. As part of the fellowship, the students will spend two months studying and researching at the Norwegian University of Science and Technology (NTNU). Vijay Sankar Babu, Research Scholar of Artificial Intelligence and Computer Vision Lab, Department of Computer Science, Noble Austine, and Omal Sivankutty, Third Year Students of M.Sc. (Five-year Integrated) in Computer Science (Artificial Intelligence and Data Science), are the recipients of the fellowship. As a part of the fellowship, the M.Sc. students will receive a funding of ₹2 lakh and the Research Scholar, of ₹4 lakh.

Under the International Partnership (INTPART) programme, which is jointly directed by NTNU and CUSAT, the visiting fellowship is given as a component of the international project known as International Network for Image- based Diagnosis (INID). As part of the visit, the students will have the chance to meet with eminent professors and scholars from NTNU while also getting exposure to the university's cutting- edge research labs.

Joint scientific collaborations in the field of medical image analysis will be the result of this visit. The project coordinators from CUSAT are Dr. Santhosh Kumar G. and Dr.Madhu S Nair and from NTNU, Dr. Faouzi Alaya Cheikh. The purpose of this exchange programme is to raise the profile of artificial intelligence (AI) in healthcare imaging education and research, improve its quality, and establish a global network of academic institutions with expertise in sharing and exchanging research and knowledge in these areas.

As a result of the earlier visiting fellowships, research papers published by CUSAT students were accepted at prominent international conferences.

'Role of Libraries Important in Institutional Ranking'

Librarians can help institutions score well in global rankings, including NIRF, said K Manoj Kumar, UGC-inflibnet scientist. He was speaking after inaugurating a one-day workshop for librarians held at the School of Engineering on July 25. Dr. Santhosh Kumar, Cusat Syndicate Member and faculty in Computer Science Department, and Dr. Surendran Cherukodan, Assistant Librarian, led the classes.

Changes in Warming Patterns of Subsurface Ocean Intensify Cyclones: Study

Changing patterns of ocean and atmosphere warming and their influences are causing more severe cyclones over the Eastern Arabian Sea adjacent to India's densely populated west coast, a new study has found.

In the Arabian Sea, tropical cyclones are more prevalent just before and at the start of the southwestern monsoon during March–June and after the season in October–December. More weather systems have developed into cyclones in recent years, pointing to a change in the environmental factors conducive to storm activity, the study published online first in the prestigious Nature Scientific Reports in September.

Large-scale ocean subsurface conditions have a crucial influence on the formation of cyclones over the Eastern Arabian Sea through the ocean's sensitivity to atmospheric forcing, or the difference between incoming solar energy and outgoing radiation along with other fluxes. "This cyclone tendency and its clustering over Eastern Arabian Sea needs attention in terms of forecasting, catastrophe risk reduction, and climate change adaptation due to the security of coastal urban and rural habitats, livelihoods, and essential infrastructure along the coasts," wrote the scientists at CUSAT and Ministry of Earth Sciences and University of Sussex, UK, who jointly conducted the study.

C S ABHIRAM NIRMAL

PROF S ABHILASH

"The report urges development strategies that account for the dangers posed by a changing climate and weather as well as policy and technological initiatives in the areas of storm warning, impact-based local weather services, and localised reliable weather services," pointed out Dr. Mrutyunjay Mohapatra, Director General of Meteorology (DGM), India Meteorological Department (IMD), one of the authors.

"IMD's storm warning service is one of the best in the world," Dr. Mohapatra added. "We favour more impact-based forecasting relevant for even better anticipatory action at local levels in view of the challenges of climate change, forecast users' special needs and our own increasing scientific and technical capabilities."

The study pointed out that the thermodynamic structure—comprising heat, temperature and energy relationships—of the upper ocean and lower atmosphere has a significant impact on the development and intensification of cyclones, technically called cyclogenesis, over the Eastern Arabian Sea.

This observed rise in development and intensification of cyclones in high numbers in certain periods over the Eastern Arabian Sea is regulated by a rise in thermal instability and humidity in the middle part of the troposphere between 4-10 km above the earth's surface. Instability denotes the tendency for air parcels to shoot up when warmed, thereby causing severe weather.

At the same time, changes in ocean temperature variation at different depths as a result of global warming cause processes below the ocean surface favouring tropical cyclone formation. This is done by extending the development of relatively stable, warmer and colder layers within the deep ocean.

The paper's lead author is C S Abhiram Nirmal, a doctoral researcher at the Advanced Centre for Atmospheric Radar Research (ACARR), CUSAT, guided by director Prof S Abhilash. The other authors are Dr. Mrutyunjay Mohapatra, DGM, IMD, Dr. Syam Sankar, researcher at the National Centre for Medium Range Weather Forecasting, Dr. A K Sahai, scientist at the Indian Institute of Tropical Meteorology, and Dr. Max Martin, University of Sussex geographer affiliated with ACARR.

Make-a-Ton 6.0: Hackathon Held

The sixth edition of the Make-a-Ton Hackathon, organised by the Centre for Innovation Technology Transfer and Industrial Collaboration (CITIC), in collaboration with Cluster Dev, for university students to embrace the spirit of innovation, was held in November at the Students Amenity centre.

"The need for exponential development over incremental change emphasises the potential of interdisciplinary innovation to uplift society and its commercial prospects," said Dr. P G Sankaran, Vice Chancellor, at the concluding ceremony of the programme. Dr. Sasi Gopalan, Syndicate member; Dr. Sam Thomas, Director, IQAC, Dr. Manoj N., RUSA, Coordinator; and Dr. Bijoy A Jos., Assistant Director, CITTIC, spoke.

Teams from 25+ colleges embarked on the 24-hour hackathon, with 7 teams focusing on hardware and the rest on software challenges. Mentorship sessions and expert guidance were included in the event. The prizes is three categories were won by CUSAT team (Best Product), MA College of Engineering (Runner-Up), and MA College, Kothamangalam (Best UI/UX).

Bodhi Memory is a Model for Universities in Higher Education: Minister Dr. R Bindu

The Bodhi project, jointly organised by the Department of Social Justice, Cochin University of Science and Technology, and the district administration, is a model in the social interactions of educational institutions, said Dr. R Bindu, Minister of Higher Education and Social Justice Department. The Minister was speaking at the inauguration of the Memory Walk organised by the Centre for Neuroscience, CUSAT, and the State Government in Kochi for dementia awareness.

"The state government is taking this matter seriously; the message of this programme was noticed throughout the state through the memory walk in Kochi. Although there are limitations to the scientific treatment of dementia, the government will ENSURE all necessary interventions in this regard. A relevant responsibility was fulfilled through the memory walk", the minister added

T J Vinod, MLA, presided over the function, and Hybi Eden, MP, delivered the keynote speech. Dr. PG Sankaran, Vice Chancellor, CUSAT, introduced CUSAT's Bodhi Project model. P Vishnuraj, Sub Collector, Ernakulam, spoke on Dementia-Friendly Ernakulam: Challenges and Prospects. Smitha MV, District Social Justice Officer; Dr. Baby Chakrapani P S, Bodhi Project Director; and Prasad Gopal, Bodhi Project Manager, spoke.

Samaritan College of Nursing, Panangadu won the first place, MAJ Nursing College Edappally secured the second place, and Mulanthurutthi Nirmala Art and Science College came third in the memory walk, in which about 1500 students from 22 colleges in Kochi participated as part of the Bodhi project. Flash mobs and mimes were also conducted under the leadership of various colleges. Umesh NSK, District Collector, administered the dementia awareness pledge and distributed prizes to the winners.

Two-Day International Maritime Conference Held

As part of the 50th anniversary of MARPOL, organised by the International Maritime Organisation, a two-day international maritime conference on marine conservation and sustainability was organised by School of Legal Studies (SLS), CUSAT Maritime Club, ICAR-CIFT, and SOFTI. Adv. Joy, Managing Partner, Callidus Legal, and Dr. Ruther M Runk Reiji, joint secretary, Legal Treaties Division, Ministry of External Affairs, delivered the special lecture. Dr. George Nynan, Director, ICAR-CIFT, presided over the function.

A book of selected essays was released by Vice Chancellor Dr. P G Sankaran. About 100 papers from national and international levels were presented at the conference.

Delegation from Belgium Chamber of Commerce Visits

The four-member delegation led by Bert Mons, the CEO of VOKA, the Chamber of Commerce and Industry of West Flanders, Belgium, visited Cochin University of Science and Technology. Davy Danny Maes and Davy Danny Maes, Chamber of Commerce Voka and Delphine Comijn, member of the steering committee Project Aurora, participated in the visit. They had a fruitful interaction with Dr. P G Sankaran, Vice Chancellor, in connection with the possibility of engaging in an MoU for student placements of engineering graduates from CUSAT. Further to the discussion, they visited the School of Engineering and interacted with the teachers and students. The visit was arranged under the aegis of ODEPC, Government of Kerala.

VOKA is part of the Federation of Belgian Chambers of Commerce and has access to the international network of Chambers of Commerce. They unite more than 18,000 businesses, representing 65% of the private employment and 70% of the added value in Flanders and Brussels, Belgium.

Photonics Students Qualify for Exchange Programme in France

JOHN SUNIL

KAVYASHREE ANIL KUMAR

SABRINATH SUNIL

Postgraduate students of International School of Photonics qualified for exchange programme at University of Rennes in France. Sabrinath Sunil, Kavyashree Anil Kumar and John Sunil qualified with a full-time scholarship as part of the International Programme in Optical Communication. The programme is based on an existing memorandum of understanding between CUSAT and the University of Rennes, France. The selected students will complete the final year of the five-year photonics degree at the University of Rennes. During this one-year period, research will be conducted in innovative areas such as biophotonics, astrophotonics and optical communications.

₹17 Lakh Grant to Study Plastic Waste Level in Backwaters

Cochin University of Science and Technology received a grant of ₹17 lakh from the Indian Council for Social Science (ICSSR) to study the level of plastic waste in Kerala backwaters and the effectiveness of various government programmes to address it.

Dr. Ancy V P, Dr. Harish N Ramanathan, Associate Professors, School of Industrial Fisheries, CUSAT, Dr. Sreejith S, Assistant Professor, School of Legal Studies and Dr. Simi Kurian, Associate Professor, Jain University, Bangalore received the grand in the category to be implemented jointly by both the universities.

DR. HARISH RAMANATHAN

DR. SIMI KURIAN

DR. SREEJITH S

DR. ANCY V P

A Holistic Approach Involving all Branches of Engineering is Need of Era: Dr. K Ajith Kumar

"A holistic approach involving all branches of engineering is the need of the era" said, Dr. K Ajith Kumar, Director, Naval Physical and Oceanographic Laboratory (NPOL), inaugurating the 2nd International Naval and Ocean Engineering Conference (ICANOI 23) at the Department of Ship Technology. He inaugurated the conference by turning the symbolic helm of the ship. "Those who know and understand the ocean well will rule the world and the maritime based industries will have more emphasis in the future in areas such as maritime security, unmanned submarines, digitization, data collection and effective utilization', he added. The Sagarmala project of the Government of India, which will make India's coastlines and inland waterways adequate for effective use, is yielding many positive results, he said.

"The fourth industrial revolution is also creating major changes in the maritime industry," said Rear Admiral Bimal Kumar, Additional Director General, Warship Design Bureau (Warship Design Bureau) of the Indian Navy and an alumnus of Ship Technology, who was the chief guest. He added that virtual reality and augmented reality will revolutionize the shipbuilding sector, ship design and testing will be completely computer-based and artificial intelligence will be used in the construction of warships in the near future. He expressed hope that the journey towards 'smart ships' would continue. He added that it is now possible to experience walking through 3D virtual models even before the ship is built. He also published a collection of conference papers.

Dr. Satheesh Babu, Head of the Department, presided over the function. Sumithran Sampath (General Manager, Class NK), Dr. K Sivaprasad, former Head of Ship Technology, Dr. D D Ebenezer, Adjunct Professor. Dr. Rajesh P Nair, Dr. TK Fawas and Dr. K A Hasina, Anthony Prince (Smart Engineering and Design Solutions, Kochi) , Dr. Dipak Kumar Sahoo,Principal , School of Engineering, CUSAT, Dr. M Ravi (NIST, Thiruvananthapuram), and Dr. Anantha Narayanan participated.

The conference featured 21 research papers in four areas: ship design and manufacturing, shipbuilding materials and corrosion, water transport systems, and computer-based ocean engineering problem solving.

Indian Register of Shipping, Naval Physical and Oceanographic Laboratory, Cochin Shipyard Limited, Nippon Kaiji Kyokai, Indian Navy, Indian Maritime University, IIT Researchers from Kharagpur, Arc to Tech Consultants Pvt Ltd, Department of Ship Technology etc. presented papers in technical sessions.

VC Addresses RBI Statistics Conference

Dr. P G Sankaran, Vice Chancellor, Cochin University of Science and Technology, delivered a keynote address at the Statistics Conference of Reserve Bank of India on November 3.

Dr. Sankaran's long research experience in the field of Statistics was insightful for the officials who felt that discussions, like these are integral in keeping pace with theory and practice in Statistics. Experts and researchers from the fields of statistics and econometrics participated in the conference and shared their insights on the emerging trends and challenges. The conference discussed issues related to collection of data, surveys and analysis of data for policy purposes.

Kerala's First Marine Hydrodynamics Lab Open

Former CUSAT Vice Chancellor Dr. K N Madhusoodanan inaugurated the newly constructed Marine Hydrodynamics Lab in the Department of Ship Technology, making it the first marine hydrodynamics lab in academic institutions in Kerala. A major feature of the Marine Hydrodynamics Lab is the indigenously developed 'Wave Flume' under the leadership of Mohammad Ashiq, Assistant Professor, Ship Technology. The lab and equipment were developed at an outlay of ₹15 lakhs.

Dr. Satheesh Babu P K, Head of the Department, Ship Technology presided the inauguration ceremony. The Wave Flume developed by Mohammad Ashiq can be used to conduct research on coastal protection, coastal structures, tidal energy, wave energy, ocean disturbances, water vibrations, etc. by creating artificial flumes.

The Marine Hydrodynamics Lab is expected to be a major asset in the field of renewable ocean-based energy research. The university is also making efforts to bring in high-value equipment like towing tanks for testing systems in the next phase of the Marine Hydrodynamics Lab.

The Marine Hydrodynamics Lab will also be an asset to Kochi, which is becoming a maritime hub.

Dr. P M Sreekanth Secures ₹43.33 Lakh for Research on Mangroves

Dr. Sreekanth P M, Assistant Professor, Department of Biotechnology received a research grant of ₹43.33 lakh from Science and Engineering Research Board (SERB) under Government of India for population genetic studies of mangroves in West Coast Asia. Dr. V B Sreekumar, Forest Botany Scientist, Kerala Forest Research Institute is part of the SERB's special call proposal on Biology of Plants under Extreme Environments.

The project will be utilised for studying the molecular taxonomy and population genetic structuring of Rhizophoraceae (Viz Rhizophora apiculata, Rhizophora muconata, Bruguieragymnorhizha, Bruguiera cylindrica) from Kerala, Karnataka,Goa, Karnataka, Maharashtra and Gujarat. The genome- wide data obtained from this research may be made useful for rehabilitation and conservation of these mangroves.

Morphological markers and Genome wide SSR markers will inform species delineation in the face of admixtures present in the natural mangroves. As genomic approaches are widely adopted, it is expected that the results obtained from this study will have a positive impact on management and policy decisions. The Study also aims to help India to initiate, improve or accelerate the implementation of its national restoration policies, programmes and plans for marine, terrestrial and inland water ecosystems by augmenting mangrove nurseries in all states on the west coast of India through its valuable research outputs.

Dr. P M Sreekanth has received a grant of ₹27 lakh under the category of SERB's Startup Research Grant for Young Scientists, a grant of ₹16.75 lakh under the Ecology and Environment category of the Kerala State Council for Science, Technology and Environment (KCSTE) Research Support Scheme and a grant of ₹2.5 lakh from the Kerala State Biodiversity Board for his research on mangroves in various terrains.

Dr. P K Baby Receives Youth Leadership Award

Dr. P. K Baby, Director, Department of Youth Welfare, received the Youth Leadership Award instituted by the 16th Global Youth Peace Festival. The award is in recognition of the Back to Village programme and other activities conducted for students and youth in CUSAT. Dr. P K Baby received the award from Sri Lankan Law Minister Vijayadasa Rajapakse at a ceremony held in Colombo, Sri Lanka. Former Sri Lankan President Maithripala Sirisena was present. 15 people from different countries secured the awards.

Two-day FDP on UAV Flight Control Systems and Technologies

The Information Technology Division of the School of Engineering organised a workshop titled UAV Flight Control Systems and Technologies under TEQIP. This workshop was designed for the benefit of faculty members, research scholars, and engineering students.

CSIR National Aerospace Laboratories (NAL) Bangalore Senior Scientist Dr.Omkar Halbe delivered the keynote address and Vishnu V Nath, CEO of Ai Aerial Dynamics also spoke at the workshop. Sibin NS and Prasoon S Krishnan, engineers at Fuselage Innovations shared the basics of flying drones. Students, researchers and teachers from various universities and colleges participated in the workshop.

Bureau of Indian Standards Inks its First Academic MoU

In a first-ever academic collaboration in the history of the Bureau of Indian Standards (BIS), CUSAT signed an MoU with BIS for standardisation and conformity assessment collaboration..

BIS is the National Standards Body of India established for the harmonious development of the activities of standardisation, conformity assessment and quality assurance of goods, articles, processes, systems and services.

The MoU will facilitate development of collaborative activities in the field of Standardisation and Conformity Assessment on the basis of equality and reciprocity. According to the agreement, CUSAT will participate in standardisation activity through BIS technical committees at national and international level, undertake R&D projects and develop infrastructure support for those.

CUSAT will also provide IT-based technological solutions for various BIS activities. Together, BIS and CUSAT will organise seminars, conferences, workshops, symposia or lectures on topics of standardisation and conformity assessment, training programmes and short-term education programmes.

The agreement also offers internship opportunities for CUSAT students and exchange of publications, information on research and educational programmes relevant to BIS. CUSAT will also consider introduction of topics on standardisation in academics with BIS support in preparing teaching modules.

The MoU also explores the possibility of setting up a Centre of Excellence in the field of Standardisation, Testing & Conformity Assessment at CUSAT, hiring of CUSAT faculty as consultants, using the laboratory facilities at CUSAT to cater to the needs of BIS.

The MoU was inked by Dr. V Meera, Registrar, CUSAT, and U S P Yadav, Deputy Director General, BIS, in the presence of Dr. P G Sankaran, Vice- Chancellor, CUSAT. A Mohammed Ismail, Scientist-F and Head, Kochi branch of BIS, Dr. Sam Thomas, Director, IQAC, and Sheena K M, Nodal Officer.

ACARR Receives ₹8.84 Crore Research Grant from Ministry of Earth Sciences

A research grant of ₹8.84 crore was awarded to the Advanced Centre for Atmospheric Radar Research (ACARR by the Ministry of Earth Sciences (MoES) in order to establish a centre of excellence in 'Equatorial Testbed for Atmospheric Observation, Modeling, and Technology Development (ATMOSTECH).' From April 2019 until March 2023, the MoES provided funding for a period of three and half years.

Alongside the ST radar station, ACARR constructed an advanced observational hub during the course of the project in order to gain a comprehensive understanding of the physical processes that occur in the tropical lower atmosphere all the way up to the ionosphere. A number of cutting-edge remote sensing instruments, such as a micro rain radar, a 2D-video disdrometer, a micro wave radiometer, a ceilometer, an aethalometer, an optical particle sizer, an aerodynamic particle sizer, a scanning mobility particle sizer, and others, are housed at the recently established observational hub that is estimated to be worth approximately ₹5 million.

The newly formed Network of Automatic Weather Stations, which has been deployed at four different institutions in and around Kochi, provides weather information that is more frequent and localized. Additionally, it complements the observations made by the ST radar for the purpose of conducting mesoscale weather analysis.

ACARR aims to bridge the gap between model development and advanced observational investigations by developing a sophisticated observational network employing cutting-edge technology and adding the latest information into the numerical models. "The centre aims to combine interdisciplinary and transdisciplinary knowledge with traditional knowledge systems. It also emphasises the exploration and evaluation of efficient methods for collaboratively generating and disseminating knowledge through meaningful interactions among researchers, operational agencies, knowledge intermediaries, common people and different stakeholders," said Dr. S Abhilash, Director, ACARR & Project Investigator.

Department of Ship Technology etc. presented papers in technical sessions.

100% Placement in Marine Engineering Programme

All B.Tech Marine Engineering graduates from 2019-2023 batch of Kunjali Marakkar School of Marine Engineering secured jobs in high positions placement. As many as 71 cadets, including 4 female cadets, who in 2023 have been placed in reputed shipping companies.

The cadets are employed with Mitsuiosk line, Synergy Maritime, Fleet Management Ltd, seaspan shipping, Maersk shipping, SIMA Marine, Seven Islands shipping & Lloyd's Register of Shipping.

During the first assignment of board, they were entitled to a CTC of ₹75,000 to ₹125,000/- per month. After completion 6 months sailing period, they will be eligible to appear for the class IV competency examinations conducted by the Directorate General of Shipping. Upon becoming certified engineer officers, they will be eligible for their promotion as Fourth engineer officers.

National Robotics Workshop

A two-day National Robotics Workshop, jointly organised by the Department of Electronics and Department of Instrumentation was inaugurated by Dr. Shanthakumar Mohan, Professor, IIT Palakkad, who talked about the current research and innovative possibilities in the field of mobile robots. Dr. Pankaj Sagar, Head, Department of Instrumentation, Dr. Suraj Damodaran and Dr. Thripti S Warrier also spoke. Ninety participants attended the workshop 'Advances in Robotics: Mobile Robotics and ROS' organised by RUSA and IEEE. Hands-on training organised by IIT Palakkad Technology I- Hub Foundation was also part of the workshop.

More Collaborations with Academic, Corporate Giants

DELEGATES FROM UNIVERSITY OF RUHUNA, SRI LANKA

CUSAT OFFICIALS WITH REPRESENTATIVE OF INP TOULOUSE, FRANCE

Strengthening the ties with international academic community, CUSAT entered into collaborations with various universities and global companies.

In a two-day visit by a delegation from University of Ruhuna, Sri Lanka, CUSAT inked an MoU to facilitate students exchanges and cooperative initiation in education, research and development.

The universities also agreed upon exchange of faculty, scholarly and pedagogical materials and staff, engaging in joint research, imparting technical training and developing curricula.

The delegation led by Prof. Sujeewa Amarasena, Vice Chancellor, University of Ruhuna, had Prof. Asoka Deepananda, Dean, Faculty of Fisheries and Marine Sciences and Technology, UoR, and Dr. Chithral Ambawatta, Dean, Faculty of Engineering, UoR as the members. The delegation also met with the heads of the departments and discussed future collaborations and activities between CUSAT and UoR.

IBM delegation meets VC

A delegation from corporate giant IBM led by Slawomir Kumka, Director, IBM Poland Lab, SPSS Statistics Software Development and Support, held a meeting with Dr. P G Sankaran, Vice Chancellor, for a high-level overview of Statistical Products of IBM and related specialisations and to enhance the collaboration with Statistics and Mathematics domains in CUSAT, stressing on internship and placement Initiatives.

The IBM delegation included Krishna Kanth Naik, program Manager, IBM University Relations, CHQ, Communications, Bindu Krishnan, senior statistician, SPSS Statistics, Data and AI, Kochi Lab Software, Achala Girijakumari, software development manager, SPSS Statistics, Data and AI, Kochi Lab Software, Madhusudan K J, Manager, IBM Analytics Engine and SPSS Modeler, and Jayatheerthan Krishnamurthy, Architect, SPSS Modeler, Data Product Exchange.

The meeting was attended by Dr. Sunoj S.M, Professor & Head, Department of Statistics, Dr. Hareesh N Ramanathan, Director, International Relations, and Dr. Sam Thomas, Director, Internal Quality Assurance Cell (IQAC). Both the parties shared their insights on student exchange programmes, information sharing, integration of facilities, introduction of joint programmes, curriculum modification and employee sponsorship programmes.

James Cook Varsity

In another visit, Dr. David Craig from James Cook University, Australia, was in CUSAT to discuss academic and research collaborative opportunities between the two varsities in the field of marine sciences.

INP Toulouse Rep at CUSAT

Dr. Pascal Maussion, Vice President of International Relations, Institute National Polytechnique de Toulouse (INP Toulouse), France, had paid a visit to the university along with FXM and Campus France Manager to discuss various collaborations, including twinning programmes and dual degree programmes between Institute National Polytechnique de Toulouse Toulouse, France, and CUSAT.

First-ever International Observational Campaign in Atmospheric Sciences

As part of the Indo-French project 'Variability of the upper-level ASIAN monsoon anticyclone and mechanisms of its coupling with tropospheric monsoon convection' between CUSAT and Laboratoire de Météorologie Dynamique (LMD), an International observational campaign was undertaken at the Advanced Centre for Atmospheric Radar Research (ACARR) on November 30 and December 1. This campaign titled BRAVEx (Balloon Radar Vertical Velocity Experiment) was led by Dr. Ajil Kottayil from ACARR and Dr. Aurelien Podglajen from LMD, Paris.

The main objective of this campaign was to enhance our theoretical and observational understanding of high frequency gravity waves at the upper troposphere and lower stratosphere (UTLS). These waves have a huge impact on ice cloud formation at the UTLS region, which can eventually affect climate. This is the first ever International observational campaign in Atmospheric Sciences being conducted at CUSAT.

Hands-on Workshop, Faculty Development Programme

A five-day hands-on workshop and faculty development programme on VLSI EDA Tools for FPGA and ASIC Design, was organised by the Department of Electronics, from December 4. The programme is conducted as part of the MeitY-funded project under the 'Chip to Start-Up' scheme of the Government of India, aimed at catalysing the growth of the semiconductor industry in India.

The workshop offered a comprehensive curriculum covering various aspects of VLSI design. The inaugural talk was by Prof. Alex James, Dean Academic and Professor, Digital University Kerala, on AGI chips. The participants engaged in practical sessions on embedded system design using Xilinx FPGAs and digital design flow using Cadence EDA tools.

Accurate, Reliable Information Impacts Higher Education: Vice Chancellor

In this era of statistical reliance on scholarship, research, and various international ranking determinations and process, it is imperative that the information provided be accurate and reliable said, Dr. P G Sankaran, Vice Chancellor, speaking at the one-day workshop on All India Survey on Higher Education (AISHE) held at Kunjali Marakkar School of Marine Engineering, CUSAT in association with Kerala State Higher Education Council (KSHEC) and All India Survey on Higher Education (AISHE), Delhi.

Dr. Rajan Varghese, Member Secretary, KSHEC, and Dr. S M Sunoj, Syndicate Member, spoke. Dona Francis, Deputy Director, AISHE, Delhi, Shivram Pandey, Research Assistant, AISHE and Ankit Wats, Young Professional AISHE led the workshop. Over 120 delegates and nodal officers from higher education institutions across the country attended the workshop.

Tribals, Intellectual Property Thematic Conference

The Centre for IPR Studies at Cochin University of Science and organised a discussion on the topic 'Need for Legislation to Protect Tribal Knowledge'. Dr. M Bhasi, Director, IPR Studies, inaugurated the initiative to address the intersection of tribal knowledge and intellectual property, a Round Table, on December 12.

The primary objectives of this insightful panel discussion included raising awareness about the indispensable role of tribal knowledge in society and its multifaceted contributions. Esteemed panellists, representing key entities such as the Directorate of Scheduled Tribes Development Department Kerala, the Kerala State Biodiversity Board, the Directorate of KIRTADS, IIT Kharagpur, and the former Chairman of the Kerala State Biodiversity Board, explored the challenges faced by indigenous communities in safeguarding their traditional knowledge.

The discussion involved a thorough analysis of existing legislative frameworks, including the Biodiversity Act and the Forest Rights Act, 2006, through enlightening case studies.

Changes should Happen in Higher Education to Retain Student Community: Dr. P G Sankaran

Higher education policy should be implemented in such a way as to eliminate unemployment and poor quality in higher education, which cause migration of the student population, said Dr. P G Sankaran, Vice Chancellor, inaugurating a one-day training programme organised by the Kerala State Higher Education Council (KSHEC) regarding the implementation of four-year undergraduate programmes in universities.

The visions of the new central and state higher education policies are looking ahead to the next 20–30 years, and new courses will be formed through this, he added.

Dr. Rajan Varghese, Member Secretary, KSHEC, presided over the inaugural function. Dr. Sasi Gopalan, Syndicate Member, CUSAT, and Dr. N Manoj, Coordinator, Integrated Studies, spoke. Faculty from CUSAT and Sree Sankaracharya Sanskrit University and officials from academic session participated in the workshop.

International Symposium on Ocean Technology

A three-day International Symposium on Ocean Technology (Sympol) – 2023 organised by Department of Electronics, was inaugurated by Dr. Manu Korulla, Outstanding Scientist and Director, Directorate of Management Services (DMS) as well as Directorate of Civil Works & Estates (DCW&E).

Dr. P G Sankaran, Vice Chancellor, presided over the function. A keynote address on Sea Systems and Innovative Underwater Technology Transformations by Dr. Manu Korulla and Interpreting Geometric Concepts into Underwater Acoustic Feature Representations: Case Studies and Challenges by Dr. Ananya Sen Gupta, Professor, University of IOWA, USA was also delivered.

Four state-of-the-art invited talks on emerging topics in Ocean Technology from experts from across India as well as abroad were delivered during SYMPOL 2023. Original research papers in areas such as Ocean Acoustics, AI for Ocean Exploration, Signal Processing, Navigation, Communication, Instrumentation and localisation were also presented by working engineers/scientists from various Laboratories, Universities, etc. at the symposium.

OPTIQ-2023 on Optics, Photonics and Quantum Information

International School of Photonics (ISP), in association with the Optical Society of India, organised a three-day international conference on Optics, Photonics and Quantum Information 'OPTIQ-2023'. XLVI Optical Society of India Symposium was inaugurated by Kehar Singh, Professor, IIT Delhi.

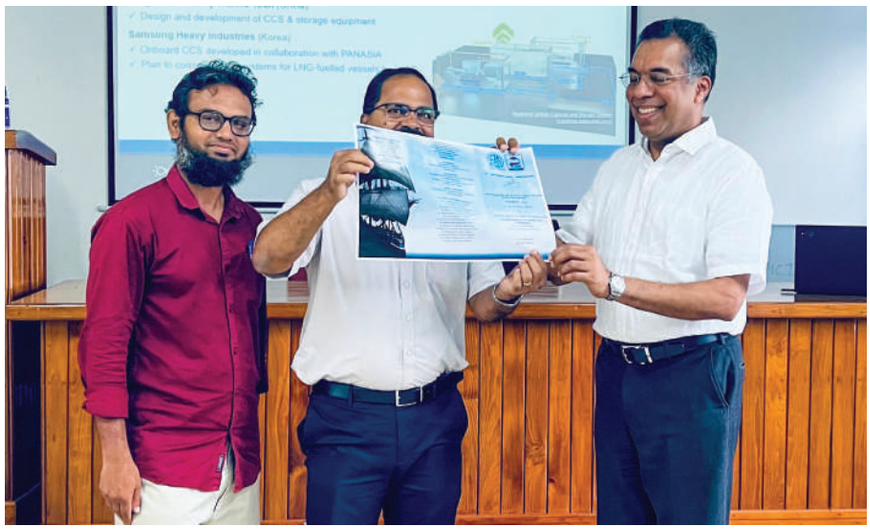
Dr. P G Sankaran, Vice Chancellor, CUSAT and S Vasudevan, Outstanding Scientist and Director(-Science and Technology), NPOL, Kochi were the chief guests. Prof. C S Narayanamurthy, President Optical Society of India presided over the inaugural function.

Around 350 delegates from India and abroad participated in the event. The conference included 5 plenary discussions and over 50 invited lectures. Around 250 papers were presented as Oral/Poster at the conference that ended on December 13.

കപ്പലുകളും കാർബൺ ന്യൂട്രൽ ബദൽ ഇന്ധനങ്ങളിലേക്ക്: ഡോ. എം അബ്ദുറഹീം

കപ്പലുകളിൽ കാർബൺ ന്യൂട്രൽ ബദൽ ഇന്ധനങ്ങൾ ഫലപ്രദമായി ഉപയോഗിക്കാനുള്ള ഗവേഷണങ്ങൾ വിവിധ ഏജൻസികളുടെ പരസ്പര സഹകരണത്തോടെ ആഗോള തലത്തിൽ സജീവമായി പുരോഗമിക്കുകയാണെന്ന് ഡോ. എം. അബ്ദുറഹീം. കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാലയിലെ ഷിപ് ടെക്നോളജി വകുപ്പിന് കീഴിലുള്ള ബി.ടെക് നേവൽ ആർക്കിടെക്ചർ അഞ്ചാം ബാച്ച് വിദ്യാർത്ഥിയായിരുന്ന, ലോകത്തെ ഏറ്റവും വലിയ ഷിപ് ക്ലാസ്സിഫിക്കേഷൻ സൊസൈറ്റികളിൽ ഒന്നായ 'ക്ലാസ്സ് എൻ.കെ' യുടെ കോർപ്പറേറ്റ് ഓഫീസറായ, ഡോ. എം. അബ്ദുറഹീം 'ബദൽ ഇന്ധന രംഗത്തെ ഏറ്റവും പുതിയ മുന്നേറ്റങ്ങൾ' എന്ന വിഷയത്തിൽ പ്രഭാഷണം നടത്തുകയായിരുന്നു.

കാർബൺ ഉദ്വമന രംഗത്ത് പ്രായോഗികമായ പരിഹാരങ്ങൾ ഉൾക്കൊള്ളുന്ന രൂപകല്പനയുള്ള കപ്പലുകൾ സമീപ ഭാവിയിൽ പുറത്തിറങ്ങുമെന്ന് പ്രതീക്ഷിക്കാമെന്നും അദ്ദേഹം കൂട്ടിച്ചേർത്തു. ഹൈഡ്രജൻ, അമോണിയ തുടങ്ങിയ ഇന്ധനങ്ങൾ വരും വർഷങ്ങളിൽ കൂടുതലായി സമുദ്രഗതാഗത രംഗത്ത് ഉപയോഗപ്പെടുത്തപ്പെടുമെന്നും അദ്ദേഹം അഭിപ്രായപ്പെട്ടു. കുസാറ്റ് ഷിപ് ടെക്നോളജി സെമിനാർ ഹാളിൽ വെച്ച് നടന്ന ചടങ്ങിൽ വകുപ്പ് മേധാവി ഡോ. പി.കെ. സതീഷ് ബാബു അദ്ധ്യക്ഷത വഹിച്ചു.



മുൻ വകുപ്പ് മേധാവി ഡോ.കെ. ശിവപ്രസാദ് ആമുഖ ഭാഷണം നടത്തി. ഷിപ് ടെക്നോളജി വകുപ്പിന് കീഴിൽ സംഘടിപ്പിക്കുന്ന രണ്ടാമത് അന്തരാഷ്ട്ര സമ്മേളനം 'ഐ-കനോയ്' 2023-ന്റെ ബ്രോഷർ ചടങ്ങിൽ വെച്ച് ഡോ. എം. അബ്ദുറഹീം പ്രകാശനം ചെയ്തു.

ഡോ. എ. മതിയഴകൻ, ഡോ.ടി.കെ. ഫവാസ്, അക്രം പി.എ, അനൂപ് ചിത്രസേനൻ തുടങ്ങിയർ ചടങ്ങിൽ സംബന്ധിച്ചു. 'നേവൽ ആൻഡ് ഓഷ്യൻ എൻജിനീയറിങ് രംഗത്തെ പുരോഗതികൾ' എന്ന പ്രമേയത്തിൽ നവംബർ മൂന്ന്, നാല് തീയതികളിലാണ് അന്താരാഷ്ട്ര സമ്മേളനം സംഘടിപ്പിക്കുന്നത്.

കലാകായിക മത്സരങ്ങളിലെ വിജയികളെ അനുമോദിച്ചു

കൊച്ചി ശാസ്ത്രസാങ്കേതിക സർവകലാശാലയെ പ്രതിനിധീകരിച്ച് ദേശീയ അന്തർദ്ദേശീയ മത്സരങ്ങളിൽ പങ്കെടുത്ത് വിജയികളായവരെ അനുമോദിച്ചു. വൈസ് ചാൻസലർ ഡോ. പി.ജി. ശങ്കരൻ വിജയികളായ വിദ്യാർത്ഥികൾക്ക് ഉപഹാരം നൽകി. സർവകലാശാല സിൻഡിക്കേറ്റംഗം ഡോ. പി.കെ ബേബി, യൂണിവേഴ്സിറ്റി യൂണിയൻ ചെയർപേഴ്സൺ നമിത ജോർജ്ജ്, ഫിസിക്കൽ എഡ്യുക്കേഷൻ ഡയറക്ടർ ഡോ. അജിത് മോഹൻ, സ്റ്റാഫ് അഡ്വൈസർ ഡോ. ഗിരീഷ് കുമാർ, ഹിന്ദി വകുപ്പ് മേധാവി ഡോ. കെ. അജിത എന്നിവർ പങ്കെടുത്തു.

ദേശീയതലത്തിൽ നടന്ന ഡിബേറ്റ് മത്സരത്തിൽ ഒന്നാം സ്ഥാനം നേടിയ സ്കൂൾ ഓഫ് ലീഗൽ സ്റ്റഡീസിലെ അനഘ പി, സ്കൂൾ ഓഫ് മാനേജ്മെന്റ് സ്റ്റഡീസിലെ ഫഹീമ ആമിന, ക്ലാസിക്കൽ ഡാൻസിൽ മൂന്നാം സ്ഥാനം നേടിയ അഖില ആനന്ദ്, ഫോക്ക് ഓർക്കസ്ട്രാ ടീം, പ്രസംഗമത്സരത്തിൽ മൂന്നാം സ്ഥാനം നേടിയ ഫഹീമ ആമിന എന്നിവർക്ക് വൈസ്ചാൻസർ ഉപഹാരം നൽകി. അന്തർദേശീയ കലാമത്സരങ്ങളിൽ പങ്കെടുത്ത ടീമിനെ അദ്ദേഹം അനുമോദിച്ചു.

വൈജ്ഞാനിക രംഗത്ത് മലയാള ഭാഷയുടെ പ്രയോഗം കൂടുതലാകണം: റഫീക്ക് അഹമ്മദ്

സാഹിത്യത്തേക്കാളുപരി വൈജ്ഞാനിക രംഗത്ത് മലയാള ഭാഷയുടെ പ്രയോഗം ഉണ്ടെങ്കിൽ ഭാഷയ്ക്ക് കൂടുതൽ വളർച്ചയുണ്ടാകുമെന്ന് കവിയും ഗാനരചയിതാവുമായ റഫീക്ക് അഹമ്മദ് പറഞ്ഞു. കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയിൽ ഭരണഭാഷാവാരാഘോഷം ഉദ്ഘാടനം ചെയ്ത് സംസാരിക്കുകയായിരുന്നു അദ്ദേഹം. സമൂഹത്തിന്റെ സാസ്കാരികതയ്ക്ക് ആഴക്കുറവ് സംഭവിച്ചിട്ടുണ്ട്. സാഹിത്യമുൾപ്പെടെയുള്ള മേഖലകളിൽ ശുദ്ധ മലയാളത്തിന് പകരം സംഭാഷണ ഭാഷ കൂടുതലായി ഉപയോഗിക്കുന്ന പ്രവണത ഭാഷയെ മുന്നോട്ടാണോ പിന്നോട്ടാണോ നയിക്കുന്നത് എന്നത് ഗവേഷണ വിഷയമാക്കേണ്ടതാണെന്ന് അദ്ദേഹം കൂട്ടിച്ചേർത്തു.

കുസാറ്റ് സെമിനാർ കോംപ്ലക്സ് മിനി ഹാളിൽ നടന്ന ചടങ്ങിൽ വൈസ് ചാൻസലർ ഡോ. പി. ജി. ശങ്കരൻ അദ്ധ്യക്ഷനായി. ഭാഷ നിലനിർത്തുക എന്നത് സംസ്കാരവും ചരിത്രവും നിലനിർത്തുന്നതിന് തുല്യമാണെന്നും പുറം നാടുകളിലേക്കുള്ള യുവ ജനങ്ങളുടെ പറിച്ചുനടൽ ഈ നിലനിൽപ്പിനെ സാരമായി ബാധിക്കുമെന്നും വൈസ് ചാൻസലർ അഭിപ്രായപ്പെട്ടു. മേന്മയുള്ള വിദ്യാഭ്യാസത്തിലൂടെയും സാമ്പത്തിക വികാസത്തിലൂടെയും ഈ കൊഴിഞ്ഞ്പോക്ക് ഇല്ലാതാക്കാൻ കഴിയണമെന്നും അദ്ദേഹം കൂട്ടിച്ചേർത്തു.

രജിസ്ട്രാർ ഡോ. മീര വി., കേരള സംസ്ഥാന ഓഡിറ്റ് വകുപ്പ് ജോയിന്റ് ഡയറക്ടർ സോഫി എ., കുസാറ്റ് അഡ്മിഷൻസ് ഡെപ്യൂട്ടി രജിസ്ട്രാർ സൈദ തുടങ്ങിയവർ സംസാരിച്ചു. നവംബർ 1 മുതൽ 7 വരെ സംഘടിപ്പിച്ച ഭരണഭാഷാവാരാഘോഷത്തിൽ പുസ്തകപ്രദർശനമടക്കം വിവിധ പരിപാടികൾ ഭരണകാര്യാലയത്തിലും സെമിനാർ കോംപ്ലക്സിലുമായി നടന്നു.

ലളിതമായ ഭാഷയിൽ എഴുതാനും സംസാരിക്കാനും ശീലിക്കുക: എസ് ജോസഫ്

ഭാഷ ഏതായാലും ലളിതമായ വാക്കുകൾ ഉപയോഗിച്ച് എഴുതാനും സംസാരിക്കുവാനും ശീലിക്കുക എന്നതാണ് പുതിയ കാലഘട്ടത്തിന് ആവശ്യമെന്ന് കവിയും അദ്ധ്യാപകനുമായ എസ്. ജോസഫ്. കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയിൽ ഭരണഭാഷാവാരാഘോഷത്തിന്റെ സമാപന സമ്മേളനത്തിൽ മുഖ്യാതിഥിയായി സംസാരിക്കുകയായിരുന്നു അദ്ദേഹം. പരിമിതികൾ ഉണ്ടെങ്കിൽ കൂടി സാധാരണക്കാരന്റെ ആവശ്യങ്ങൾക്ക് ഉതകുന്ന രീതിയിൽ ഭാഷയെ ഉപയോഗപ്പെടുത്തണമെന്നും അദ്ദേഹം കൂട്ടിച്ചേർത്തു.

കുസാറ്റ് ഹിന്ദി വകുപ്പ് മേധാവിയും മുൻ രജിസ്ട്രാറുമായ ഡോ. കെ. അജിത അദ്ധ്യക്ഷയായ ചടങ്ങിൽ ഇംഗ്ലീഷ്-വിദേശഭാഷാ വകുപ്പ് മേധാവി ഡോ. ബൃന്ദ ബാല ശ്രീനിവാസൻ എന്നിവർ സംസാരിച്ചു. ഭാഷാപരിപോഷണ പ്രവർത്തനങ്ങളുടെ ഭാഗമായി ജീവനക്കാർക്ക് ഏർപ്പെടുത്തിയ ഭരണഭാഷാ പുരസ്കാരങ്ങൾ ചടങ്ങിൽ വിതരണം ചെയ്തു.

ഹിന്ദി വകുപ്പിൽ ഡ്രാമ ക്ലബ്ബ് ഉദ്ഘാടനം ചെയ്തു

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല ഹിന്ദി വകുപ്പിൽ ആരംഭിക്കുന്ന ഹിന്ദി ഡ്രാമ ക്ലബ്ബിന്റെ ഉദ്ഘാടനവും സമകാലീന രംഗവേദിയെക്കുറിച്ചുള്ള പ്രഭാഷണവും പ്രശസ്ത ഹിന്ദി നാടകകൃത്ത് ഡോ. മീര കാന്ത് (ന്യൂ ഡൽഹി) നിർവ്വഹിച്ചു.

ഹിന്ദി വകുപ്പ് മേധാവി ഡോ. കെ. അജിത അദ്ധ്യക്ഷയായ ചടങ്ങിൽ ഡോ. ശശി ഗോപാൽ (സിൻഡിക്കേറ്റംഗം), ഷമീം അലിയാർ, ഡോ. ആർ. ശശിധരൻ, ഡോ. എം.കെ. ബിന്ദു, ഡോ. അനീഷ് എന്നിവർ സംസാരിച്ചു.

ഭരണഭാഷാ പരിശീലന ക്ലാസ്സ് സംഘടിപ്പിച്ചു

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയിൽ ഭാരണഭാഷാവാരാചരണത്തിന്റെ ഭാഗമായി സർവകലാശാല ജീവനക്കാർക്ക് ഭരണഭാഷാ പരിശീലനക്ലാസ്സ് സംഘടിപ്പിച്ചു.

ഗവൺമെന്റ് സെക്രട്ടറിയേറ്റിലെ ഔദ്യോഗിക ഭാഷാവകുപ്പിലെ ഭാഷാവിദഗൻ ഡോ. ആർ. ശിവകുമാർ പരിശീലന പരിപാടിക്ക് നേതൃത്വം നൽകി. സംസ്ഥാന ഓഡിറ്റ് വകുപ്പ് ഓഡിറ്റ് ഓഫീസർ ഡോ. വിനീത് ആർ., ഷിപ് ടെക്നോളജി വകുപ്പ് സെക്ഷൻ ഓഫീസർ ഹരികുമാർ എന്നിവർ സംസാരിച്ചു.

ഭരണകാര്യാലയത്തിൽ വായനാവാരം ആചരിച്ചു

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല പബ്ലിക് റിലേഷൻസ് ഓഫീസും കൊച്ചിൻ യൂണിവേഴ്സിറ്റി വുമൺസ് വെൽഫെയർ ഓർഗനൈസേഷ(സിയുഡബ്ല്യൂഡബ്ല്യൂഒ)നും സംയുക്തമായി ജൂൺ 19 മുതൽ ജൂൺ 26 വരെ വായനാവാരം സംഘടിപ്പിച്ചു. വായനാവരാചരണത്തിന്റെ സമാപനച്ചടങ്ങിൽ പ്രൊഫസർ ടി ജെ ജോസഫ് പ്രഭാഷണം നടത്തി. 'അറ്റുപോകാത്ത ഓർമ്മകൾ' എന്ന തന്റെ ആത്മകഥയ്ക്ക് കേരള സാഹിത്യ അക്കാദമി അവാർഡ് നേടിയ പ്രൊഫസർ ടി ജെ ജോസഫ് 'വായനയുടെ സൗഭാഗ്യങ്ങൾ' എന്ന വിഷയത്തിലാണ് പ്രഭാഷണം നടത്തിയത്.

വായനാവാരാചരണത്തിന്റെ ഭാഗമായി കഥാകൃത്ത് പ്രിയ എ എസ് തന്റെ 'എന്റെ കൊത്തങ്കല്ലുകൾ' എന്ന പുസ്തകത്തെക്കുറിച്ച് ചർച്ച നടത്തി. സെനറ്റ് ഹാളിൽ വച്ച് നടന്ന പുസ്തകചർച്ച ജീവനക്കാർക്ക് വേറിട്ട ഒരു അനുഭവമായി. തന്റെ അനുഭവങ്ങളെക്കുറിച്ചും എഴുത്തിന്റെ പ്രക്രിയയെക്കുറിച്ചും ഓരോ രചനയുടെയും പ്രചോദനത്തെക്കുറിച്ചും വായനക്കാരോട് സംവദിച്ച പ്രിയ തന്റെ വഴികളിലെ മനുഷ്യരെക്കുറിച്ച് എഴുതുന്ന കുറിപ്പുകൾ എങ്ങനെയാണ് എഴുതാതെ ഇരിക്കുമ്പോൾ ഉള്ള അസ്വസ്ഥതകൾ ലഘൂകരിക്കുന്നത് എന്നും വിശദീകരിച്ചു.

കുസാറ്റ് സെമിനാർ കോംപ്ലക്സിൽ നടന്ന ചടങ്ങിൽ ഫിനാൻസ് ഓഫീസർ സുധീർ എം എസ് അധ്യക്ഷത വഹിച്ചു. സിയുഡബ്ല്യൂഡബ്ല്യൂഒ ജോയിന്റ് സെക്രട്ടറി സൈദ കെ. എം, ഷിപ്ടെക്നോളജി വകുപ്പിലെ സെക്ഷൻ ഓഫീസർ ഹരികുമാർ എന്നിവർ സംസാരിച്ചു. വായനാവരാചരണത്തിന്റെ ഭാഗമായി നടത്തിയ വിവിധ മത്സരങ്ങളിൽ വിജയികളായവർക്ക് സമ്മാനം നൽകി. സാഹിത്യസദസ്സ്, കവിതാപാരായണം, പ്രസംഗമത്സരം, ഇംഗ്ലീഷിലും മലയാളത്തിലുമായി ലേഖന മത്സങ്ങൾ, പോസ്റ്റർ രചന, റീൽസ് മത്സരം എന്നിവ വായനാവാരാചരണത്തിന്റെ ഭാഗമായി നടന്നു.

പരിസ്ഥിതിദിനത്തോടനുബന്ധിച്ച് വിവിധ പദ്ധതികൾക്ക് തുടക്കം

ഇഷ്ട മരം ഫൗണ്ടേഷന്റ ഭാഗമായി കേരള വനംവന്യജീവി വകുപ്പിനു കീഴിലുള്ള സാമൂഹ്യ വനവൽക്കരണ വിഭാഗത്തിന്റെ ഹരിത കേരളം പദ്ധതിയുടെ ആഭിമുഖ്യത്തിൽ കൊച്ചിൻ യൂണിവേഴ്സിറ്റിയിൽ വൃക്ഷതൈകളുടെ വിതരണോദ്ഘാടനവും വൃക്ഷതൈ നടീലും നടന്നു. പെരുമ്പാവൂർ റേഞ്ച് ചെട്ടിക്കണ്ടത് നഴ്സറിയിൽ നിന്നും ലഭിച്ച വൃക്ഷതൈകളുടെ നടീൽ ആണ് നടന്നത്. ഇലക്ട്രോണിക്സ് വകുപ്പ് മേധാവി ഡോ. ദീപ്തി ദാസ് കൃഷ്ണ ഇൻഫോർമേഷൻ സയൻസ്റ്റ് യൂണിവേഴ്സിറ്റി ലൈബ്രറി ഡിപ്പാർട്ട്മെന്റിലെ ലിനി വർഗ്ഗീസിന് നല്കി കൊണ്ട് ഉദ്ഘാടനം നിർവ്വഹിച്ചു.

ചടങ്ങിൽ ഇലക്ട്രോണിക്സ് വകുപ്പ് മേധാവി എം കെ സുധി , മെയിന്റനൻസ് എഞ്ചിനീയർ പി വൈ അനിൽ, ഇഷ്ടമരം ഫൗണ്ടേഷൻ സ്ഥാപകൻ ബാബു തട്ടാർക്കുന്നേൽ, കുസാറ്റ് ജീവനക്കാർ, അധ്യാപകർ, ഗവേഷണ വിദ്യാർത്ഥികൾ തുടങ്ങിയവർ ചടങ്ങിൽ പങ്കെടുത്തു.

1000 വൃക്ഷത്തൈകൾ വിതരണം ചെയ്തു

ലോക പരിസ്ഥിതിദിനത്തിൽ കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല ഇന്ത്യൻ ഗ്രീൻ ബിൽഡിങ് കൗൺസിൽ അംഗങ്ങളായ വിദ്യാർത്ഥികൾ 1000 വൃക്ഷത്തൈകളാണ് കുസാറ്റിന് പരിസരത്തും കളമശ്ശേരി മുൻസിപ്പൽ പ്രദേശത്തെ വീടുകളിലും സ്കൂളുകളിലും സർക്കാർ സ്ഥാപണങ്ങളിലും വിതരണം ചെയ്തത്. സ്കൂൾ ഓഫ് എഞ്ചിനിയറിങ്ങിൽ നടന്ന ചടങ്ങ് പ്രിൻസിപ്പാൾ ഡോ. ദീപക് കുമാർ സാഹു മരം നട്ട് ഉദ്ഘാടനം ചെയ്തു.

കേരള വനം വകുപ്പും കളമശ്ശേരി മുൻസിപ്പാലിറ്റിയുമായി സഹകരിച്ചാണ് പരിപാടി സംഘടിപ്പിച്ചത്.

ഇഷ്ടമരം നട്ട് കുസാറ്റ് വൈസ് ചാൻസലർ

കുസാറ്റ് ഇഷ്ടമരം ഫൗണ്ടേഷന്റെ രണ്ടാം വാർഷികാഘോഷങ്ങളുടെ ഭാഗമായി കൊച്ചിൻ യൂണിവേഴ്സിറ്റി എംപ്ലോയീസ് അസോസിയേഷന്റെയും ഇഷ്ടമരം ഫൗണ്ടേഷന്റെയും സംയുക്ത ആഭിമുഖ്യത്തിൽ യൂണിവേഴ്സിറ്റിയിലെ എല്ലാ വകുപ്പുകളിലും ഉദ്യോഗസ്ഥർ ഇഷ്ടമരം നട്ടു. ഈ മാസം വിരമിക്കുന്ന കുസാറ്റ് വൈസ് ചാൻസലർ ഡോ കെ എൻ മധുസൂദനൻ, പ്രൊ-വൈസ് ചാൻസലർ ഡോ പി ജി ശങ്കരൻ എന്നിവർ കുസാറ്റ് അഡ്മിനിസ്ട്രേറ്റീവ് ഓഫീസ് അങ്കണത്തിൽ ഇഷ്ടമരം നട്ടുകൊണ്ട് പരിപാടിക്ക് തുടക്കമിട്ടു. എംപ്ലോയീസ് അസോസിയേഷൻ സെക്രട്ടറി പി കെ പദ്മകുമാർ, പ്രസിഡന്റ് സിനേഷ് എ എസ്, ഇഷ്ടമരം ഫൗഷേൻ സ്ഥാപകൻ ബാബു തട്ടാർകുന്നേൽ എന്നിവർ സംസാരിച്ചു.

ഉമിയും ഇരുമ്പൻപുളിയും ഉപയോഗിച്ച് 'പരിസ്ഥിതി സൗഹൃദ ടയർ' നിർമിക്കാനുള്ള സാങ്കേതികവിദ്യ വികസിപ്പിച്ച് അപ്ലൈഡ് കെമിസ്ട്രി ശാസ്ത്രജ്ഞർ

ഉമിയിൽ നിന്ന് ഇരുമ്പൻപുളി നീരുകൊണ്ട് സിലിക്ക വേർതിരിച്ച് ചെലവ് കുറഞ്ഞ, ഇന്ധനക്ഷമത കൂടിയ, ടയർ പരിസ്ഥിതി സൗഹാർദ്ദപരമായി നിർമിക്കാമെന്ന് കണ്ടെത്തി കൊച്ചി ശാസ്ത്രസാങ്കേതിക സർവകലാശാലയിലെ (കുസാറ്റ്) ശാസ്ത്രജ്ഞർ.

അപ്ലൈഡ് കെമിസ്ട്രി മേധാവി ഡോ. പി എം സബൂറാ ബീഗം. ഡോ. സി ഡി മിഥുൻ ഡൊമിനിക്, പ്രോജക്ട് അസിസ്റ്റന്റ് ഐശ്വര്യ ബാലൻ എന്നിവരാണ് നെല്ലിന്റെ ഉമിയിൽ നിന്ന് എളുപ്പത്തിൽ ടയർ നിർമാണത്തിനും മറ്റും ഉപയോഗിക്കുന്ന സിലിക്ക വേർതിരിക്കാം എന്ന പഠനം നടത്തിയത്. വളരെകൂടിയ താപനിലയിൽ നെല്ലിന്റെ ഉമി കരിക്കുക വഴി ഉത്പാദിപ്പിക്കുന്ന സിലിക്കയിൽ നിന്നുള്ള സോഡിയവും പൊട്ടാസ്യവും വേർതിരിക്കാൻ ഇരുമ്പൻപുളി നീരിനാകുമെന്നാണ് കണ്ടെത്തൽ.


ഡോ. പി എം സബൂറാ ബീഗം


ഡോ.സിഡിമിഥുൻഡൊമിനിക്


ഐശ്വര്യ ബാലൻ

ഇതുവഴി വളരെ ചെലവേറിയ സിലിക്കാ നിർമാണം ലഘൂകരിക്കാനാകും.

പരിസ്ഥിതി കാലാവസ്ഥാ വകുപ്പ് ഫണ്ട് ചെയ്ത ഇവരുടെ ഗവേഷണത്തിന്റെ ഫലം ജേർണൽ ഓഫ് ക്ലീനർ പ്രൊഡക്ഷൻ എന്ന ശാസ്ത്ര ജേർണലിൽ പ്രസിദ്ധീകരിക്കുകയും ചെയ്തു. കുസാറ്റിൽ ഗവേഷണം നടത്തിയ ഡോ. സി ഡി മിഥുൻ ഡൊമിനിക് ഇപ്പോൾ തേവര സേക്രഡ് ഹാർട്ട് കോളേജിലെ അസിസ്റ്റന്റ് പ്രൊഫസറാണ്.

മണിപ്പൂരിന് ഐക്യദാർഢ്യം

മണിപ്പൂരിലെ വംശീയ കലാപത്തിന്റെ ഭാഗമായി ആൾക്കൂട്ട അക്രമണങ്ങൾക്കും കൂട്ട ബലാത്സഗത്തിനും ഇരയാക്കപ്പെട്ട സ്ത്രീകൾക്ക് ഐക്യദാർഢ്യം പ്രഖ്യാപിച്ച് കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയില കൊച്ചിൻ യൂണിവേഴ്സിറ്റി വുമസ് വെൽഫെയർ അസോസിയേഷ (സിയുഡബ്യൂഡബ്യൂഒ)ന്റെ ആഭിമുഖ്യത്തിൽ പ്രതിഷേധ പരിപാടി സംഘടിപ്പിച്ചു. പരിപാടിയിൽ സിയുഡബ്യൂഡബ്യൂഒ പ്രസിഡന്റ് സൈദ കെ. എം, ഹിന്ദി വകുപ്പ് മേധാവി ഡോ. കെ. അജിത, സർവകലാശാല ജീവനക്കാരായ ചിത്ര എസ്. എച്ച്, ഷീന മാത്യു, മെറിമോൾ തുടങ്ങിയവർ സംസാരിച്ചു.

സർവകലാശാലയുടെ പ്രവർത്തനങ്ങൾ ജനങ്ങളിലേക്കെത്തണം: സ്വാതന്ത്ര്യദിന പ്രഭാഷണത്തിൽ വൈസ് ചാൻസലർ

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയിൽ നടക്കുന്ന ഗവേഷണ പഠന പ്രവർത്തനങ്ങളുടെ ഗുണഫലം ജനങ്ങളിലേക്ക് കൂടുതായി എത്തിക്കാൻ സാധിക്കണമെന്ന് കൊച്ചി ശാസ്ത്രസാങ്കേതിക സർവകലാശാല വൈസ് ചാൻസലർ ഡോ. പി.ജി.ശങ്കരൻ പറഞ്ഞു. ദരിദ്രർ കൂടുതൽ ദരിദ്രരാകുന്ന സാഹചര്യത്തിൽ രാജ്യത്തിന്റെ സ്വാതന്ത്യം പൂർണ്ണമാകുകയില്ലെന്നും അദ്ദേഹം കൂട്ടിച്ചേർത്തു. രാജ്യത്തിന്റെ 77-മത് സ്വാതന്ത്ര്യദിനാഘോഷങ്ങളുടെ ഭാഗമായി സർവകലാശാലയിൽ പതാക ഉയർത്തി സംസാരിക്കുകയായിരുന്നു അദ്ദേഹം.

ചടങ്ങിൽ രജിസ്ട്രാർ ഡോ. വി. മീര, അദ്ധ്യാപകർ, വിദ്യാർത്ഥികൾ, ഉദ്യോഗസ്ഥർ എന്നിവർ പങ്കെടുത്തു.

ഉദ്ബോധ് ഡിമെൻഷ്യ ഡേ കെയർ ഹോം വാർഷികാഘോഷവും പൊതുസമ്മേളനവും

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയുടെ സാങ്കേതിക സഹായത്തോടെ കൊച്ചിൻ കോർപറേഷൻ നടത്തി വരുന്ന ഡിമൻഷ്യ ബാധിതർക്കുള്ള ഉദ്ബോധ് ഡേ കെയർ ഹോം വാർഷികാഘോഷം സെപ്റ്റംബർ 16 ന് നടന്നു. മന്ത്രി പി. രാജീവ് ഉദ്ഘാടനം ചെയ്ത ചടങ്ങിൽ ഹൈബി ഈഡൻ എം.പി, കൊച്ചി മേയർ അഡ്വക്കേറ്റ് എം അനിൽകുമാർ, ക്ഷേമ കാര്യാ സ്റ്റാൻഡിങ് കമ്മിറ്റി ചെയർ പേഴ്സൺ ഷീബ ലാൽ എന്നിവർ പങ്കെടുത്തു. വാർഡ് കൗൺസിലർ മിനി വിവേര സ്വാഗതം ആശംസിച്ചു.

ആരോഗ്യരംഗത്ത് ഉണ്ടായ നേട്ടം മൂലം കേന്ദ്രത്തിന്റെ ഭാഗത്ത് നിന്ന് വേണ്ടവിധമുള്ള സാമ്പത്തിക സഹായം നിലവിൽ ലഭിക്കുന്നില്ല എങ്കിലും ബദൽ സംവിധാനങ്ങൾ വഴി കേരളം അതിനെ മറികടക്കുന്നുവെന്ന് മന്ത്രി പി രാജീവ് അഭിപ്രായപ്പെട്ടു. കേരളം ആരോഗ്യ വിദ്യാഭ്യാസ രംഗത്ത് പുരോഗതി കൈവരിക്കുകയും അതിനെ തുടർന്ന് ആയുർദൈർഘ്യം കൂടുകയും ചെയ്തത് മൂലം വർദ്ധിച്ചുവരുന്ന വയോജനങ്ങൾക്ക് വേണ്ടിയുള്ള ഇത്തരം ഇടങ്ങൾ ഏറെ പ്രാധാന്യമുള്ളവയാണെന്നും സമൂഹത്തിന്റെ പുരോഗതിയെ തന്നെ നിർണയിക്കുന്നവയാണ് എന്നും ഹൈബി ഈഡൻ എം.പി മുഖ്യ പ്രഭാഷണത്തിൽ ചൂണ്ടി കാട്ടി.

ഡിമെൻഷ്യ ഹോമിന്റെ സുഖമമായ നടത്തിനായി ജിയോജിത് ഫൌണ്ടേഷൻ നൽകുന്ന സംഭാവനകൾ വലുതാണ് എന്നും, ഇത്തരം മോഡലുകൾ ഇനിയും നഗരത്തിൽ ഡിമെൻഷ്യ ബാധിതർക്കായി ഉണ്ടാകണം എന്നും അധ്യക്ഷ പ്രസംഗത്തിൽ മേയർ അനിൽകുമാർ പറഞ്ഞു.

ക്ഷേമകാര്യ സ്റ്റാൻഡിങ് കമ്മിറ്റി ചെയർപേഴ്സൺ ശ്രീമതി ഷീബ ലാൽ പദ്ധതിയുടെ രണ്ടു വർഷത്തെ പ്രവർത്തനങ്ങളും, കൊച്ചി കോർപറേഷൻ ഡിമെൻഷ്യ ഹോമിന് വേണ്ടി 2 ലക്ഷം രൂപ അനുവദിച്ച കാര്യവും അറിയിച്ചു.

കൊച്ചി ശാസ്ത്രസാങ്കേതിക സർവ്വകലാശാല വൈസ് ചാൻസിൽ പ്രൊഫസർ പി ജി ശങ്കരൻ ഡിമെൻഷ്യ സൗഹൃദ കൊച്ചിക്ക് പിന്നിലെ അക്കാദമി സ്ഥാപനങ്ങളുടെ പങ്കിനെപ്പറ്റി സംസാരിച്ചു.

ഡിമെൻഷ്യ ഹോമിന്റെ ദൈനദിന പ്രവർത്തനൾക്ക് മേൽനോട്ടം വഹിക്കുന്ന അരികെ എന്ന സന്നദ്ധ സംഘടനയുടെ ചെയർമാനും, മുൻ ജില്ലാ മെഡിക്കൽ ഓഫീസറുമായ ഡോ.ജുനൈദ് റഹ്മാൻ ചടങ്ങിൽ ആശംസകൾ അറിയിച്ചു ഡിമെൻഷ്യ കെയർ ഹോമിന് പിന്തുണ നൽകിയവരെ ചടങ്ങിൽ ആദരിച്ചു. ചടങ്ങിൽ കെയർ ഹോം മാനേജറും, സൈക്കോജിസ്റ്റുമായ ബിബി ഡോമിനിക് ഐക്കര നന്ദി പറഞ്ഞു.

ഇന്ത്യൻ സ്വച്ഛതാ ലീഗിന്റെ ഭാഗമായി സർവകലാശാല

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല സ്കൂൾ ഓഫ് മാനേജ്മെന്റ് സ്റ്റഡീസി (എസ്എംഎസ്)ൽ കളമശ്ശേരി നഗരസഭയുടെ ആഭിമുഖ്യത്തിൽ ഇന്ത്യൻ സ്വച്ഛതാ ലീഗ് സീസ- 2ന്റെ ഭാഗമായി സംഘടിപ്പിക്കുന്ന സ്വച്ഛതാ റാലി കുസാറ്റ് വൈസ് ചാൻസലർ ഡോ. പി. ജി. ശങ്കരൻ ഫ്ലാഗ് ഓഫ് ചെയ്തു. കേരളം ഇന്ന് അഭിമുഖീകരിക്കുന്ന പ്രധാന പ്രശ്നം മാലിന്യമാണെന്നും ഇത്തരം പ്രവർത്തനങ്ങളിലൂടെ വിദ്യാർത്ഥികളിൽ അവബോധം സൃഷ്ടിക്കാനാകുമെന്നും അദ്ദേഹം പറഞ്ഞു.

സെപ്റ്റംബർ 14 മുതൽ 16 വരെ നടന്ന ക്ലീൻ കളമശ്ശേരി സ്വച്ഛതാ ലീഗ് 2.0-ൽ ഫ്ലാഷ് മോബ്, ബോധവത്കരണ ക്ലാസ്സ്, ക്ലീനിങ് ഡ്രൈവ്, സെൽഫി പോയിന്റ്, സൗന്ദര്യവത്കരണം തുടങ്ങിയ പ്രവർത്തനങ്ങൾ സംഘടിപ്പിച്ചു.

എസ്എംഎസിലെ ഒന്നാം വർഷ എംബിഎ വിദ്യാർത്ഥികൾ പങ്കെടുത്ത റാലിയിൽ കുസാറ്റ് രജിസ്ട്രാർ ഡോ. മീര വി., എസ്എംഎസ് ഡയറക്ടർ ഡോ. ജഗതി രാജ് വി.പി., അദ്ധ്യാപകരായ ഡോ. സംഗീത കെ. പ്രതാപ്, ഡോ. മനു മെൽവിൻ ജോയ്, കളമശ്ശേരി നഗരസഭാ ജീവനക്കാർ, സർവകലാശാല ജീവനക്കാർ തുടങ്ങിയവർ പങ്കെടുത്തു.

ഫ്രഞ്ച് ഫെല്ലോഷിപ്പ് നേടി ഫോട്ടോണിക്സ് അധ്യാപകൻ

ഡോ എം കൈലാസ് നാഥ്

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാലയിലെ ഇന്റർനാഷണൽ സ്കൂൾ ഓഫ് ഫോട്ടോണിക്സ് പ്രൊഫസറും ഫാക്കൽറ്റി കുസാറ്റ് ടെക്നോളജി ഡീനുമായ ഡോ എം കൈലാസ് നാഥിന് ഫ്രഞ്ച് വിസിറ്റിംഗ് ഫെല്ലോഷിപ്പ്.

ഫ്രാൻസിലെ യൂണിവേഴ്സിറ്റി ഓഫ് റെന്നെയിൽ സിംഗിൾ ഫോട്ടോൺ പ്രകാശ സ്രോതസ്സുകളുടെ വികസനവുമായി ബന്ധപ്പെട്ട ഗവേഷണ പ്രൊജക്ടിൽ പങ്കെടുക്കാനാണ് ഫെല്ലോഷിപ്പ്.

പ്രൊഫസർ കുഞ്ഞാമനെ അനുസ്മരിച്ചു

അന്തരിച്ച സാമ്പത്തിക ശാസ്ത്രജ്ഞനും ചിന്തകനുമായ പ്രൊഫസർ കുഞ്ഞാമന് കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല എക്കണോമിക്സ് വകുപ്പ് അനുശോചനം രേഖപ്പെടുത്തി. കുസാറ്റിൽ നിന്നും ഗവേഷണം പൂർത്തിയാക്കിയ അദ്ദേഹം പ്രതികൂല ജീവിത സാഹചര്യങ്ങളിലൂടെ കടന്ന് വന്ന് സമൂഹത്തിനാകെ മാതൃകയാവുകയായിരുന്നു. എക്കണോമിക്സ് വകുപ്പ് മേധാവി ഡോ. പി.കെ. മനോജ്, വകുപ്പ് സ്ഥാപകൻ ഡോ. കെ. സി. ശങ്കരനാരായണൻ, ഡോ. പി. അരുണാചലം, ഡോ. എസ് ഹരികുമാർ, ഡോ. പി. ആർ. സുരേഷ്, ലൈബ്രേറിയൻ രതീഷ് കെ., തുടങ്ങിയവർ അദ്ദേഹവുമായുള്ള ഓർമ്മകൾ പങ്കുവെച്ചു.

ഹിന്ദി വകുപ്പിൽ കേരളപ്പിറവി ദിനാഘോഷം സംഘടിപ്പിച്ചു

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല ഹിന്ദി വകുപ്പിൽ നടന്ന കേരളപ്പിറവി ദിനാഘോഷത്തിൽ കോട്ടയം മഹാത്മാഗാന്ധി സർവകലാശാലയിലെ സ്കൂൾ ഓഫ് ലെറ്റേഴ്സ് പ്രൊഫസർ ഡോ. പി. എസ്. രാധാകൃഷ്ണൻ മുഖ്യ പ്രഭാഷണം നടത്തി. മലയാള ഭാഷയുടെ സാമൂഹിക- സാംസ്കാരിക പശ്ചാത്തലം എന്ന വിഷയത്തിലായിരുന്നു പ്രഭാഷണം. ഹിന്ദി വകുപ്പ് മേധാവി ഡോ. കെ. അജിത അദ്ധ്യക്ഷത വഹിച്ച യോഗത്തിൽ ഡോ. ആർ. ശശിധരൻ, ഡോ. ആബേഷ് രഘുവരൻ, കെ. രതീഷ്, ഡോ. കെ.കെ. ഗിരീഷ്കുമാർ, ഡോ. കെ. എൻ അനീഷ് എന്നിവർ സംസാരിച്ചു.

ത്രിദിന അന്താരാഷ്ട്ര സെമിനാർ സംഘടിപ്പിച്ചു

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർകലാശാല ഹിന്ദി വകുപ്പിൽ റൂസ 2.0 യുടെ ആഭിമുഖ്യത്തിൽ ഹിന്ദിയിലെ സബാൾട്ടൻ സാഹിത്യം എന്ന വിഷയത്തിൽ സംഘടിപ്പിച്ച ത്രിദിന അന്താരാഷ്ട്ര സെമിനാറിന്റെ ഉദ്ഘാടനം ഹിന്ദി എഴുത്തുകാരി അൽകാ സരാവഗി നിർവ്വഹിച്ചു.

വകുപ്പ് മേധാവി ഡോ. കെ അജിത അദ്ധ്യക്ഷയായ ചടങ്ങിൽ പ്രവാസി കവിയും എഴുത്തുകാരിയുമായ ഡോ. അനിത കപൂർ, സർവകലാശാല സിൻഡിക്കേറ്റ് അംഗം ഡോ. പി. കെ. ബേബി, ഡോ. ബ്യന്ദ ബാല ശ്രീനിവാസൻ, ഡോ. അനീഷ് കെ. എൻ, ഡോ. ഗിരീഷ് കുമാർ കെ. കെ എന്നിവർ സംസാരിച്ചു.

മൂന്നു ദിവസമായി നടന്ന സെമിനാറിൽ ഡോ. എ അരവിന്ദാക്ഷൻ, ഡോ. ശശി മുദിരാജ് (ഹൈദരാബാദ്), പ്രൊഫ. ആശിഷ്ത്രിപാഠി (ബനാറസ്), പ്രൊഫ. ബീർപാൽ സിങ് യാദവ് (ഹരിയാന), ഡോ. പ്രീതി സാഗർ (വാർധ), ഡോ. അനുജ് ലുഗൂൻ (ബീഹാർ), ഡോ. തങ്കമണിയമ്മ, ഡോ. കമലേഷ് കുമാരി (ഹരിയാന) എന്നിവർ ഉൾപ്പടെ ഹിന്ദി സാഹിത്യരംഗത്തെ പ്രമുഖ നിരൂപകരും അദ്ധ്യാപകരും സെമിനാറിൽ പങ്കെടുത്തു.

ക്യാപ്റ്റൻ എൻ എസ് മോഹൻ റാം വിശിഷ്ട സേവാ മെഡൽ എൻഡോവ്മെന്റ് അവാർഡ് കുസാറ്റ് ഷിപ് ടെക്നോളജി ഗോൾഡൻ ജൂബിലി അലുംനി സെമിനാർ ഹാളിൽ നടന്ന ചടങ്ങിൽ, ഇന്ത്യൻ നേവിയിലെ 44-ാം ബാച്ചിലെ സബ് ലെഫ്റ്റനന്റ് മയങ്ക് ഗോയലിനു സമ്മാനിച്ചു. ആദ്യ എൻഡോവ്മെന്റ് അവാർഡ് ദാന സമ്മേളനത്തിൽ കമ്മാൻഡർ ദീപക് സെബാസ്റ്റ്യൻ, ലെഫ്റ്റനന്റ് കമ്മാൻഡർ നിതിൻ ശർമ്മ, ഡോ. സതീഷ് ബാബു, ഡോ. ശിവപ്രസാദ് എന്നിവർ സംസാരിച്ചു

സൈബർ സെക്യൂരിറ്റിയിൽ ഫാക്കൽറ്റി ഡെവലപ്മെന്റ് പ്രോഗ്രാം

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയിൽ നാഷണൽ സൈബർ സെക്യൂരിറ്റി റിസർച്ച് കൗൺസിലിന്റെ ആഭിമുഖ്യത്തിൽ സൈബർ സെക്യൂരിറ്റി സംബന്ധിച്ച ഫാക്കൽറ്റി ഡെവലപ്മെന്റ് പ്രോഗ്രാമിൽ കേരള ഹൈക്കോടതി മുൻ ജഡ്ജിയും മദ്രാസ് ഹൈക്കോടതിയിലെ മുൻ ആക്ടിങ് ചീഫ് ജസ്റ്റിസുമായ ജസ്റ്റിസ് ഡോ. കെ. നാരായണക്കുറുപ്പ് മുഖ്യാതിഥിയായി. ഉന്നത വിദ്യാഭ്യാസ സ്ഥാപനങ്ങളെ സംബന്ധിച്ച് വിദ്യാർത്ഥികളുടെയും അദ്ധ്യാപകരുടെയും പേറ്റന്റുകളും വ്യക്തിഗത വിവരങ്ങളും ഉൾപ്പടെയുള്ള ബൗദ്ധിക സ്വത്തുകൾ സൈബർ ആക്രമണങ്ങളിലൂടെ നഷ്ട്ടമാകുന്നതിന്റെ നിരക്ക് വളരെ വലുതാണ്. സൈബറിടങ്ങളിൽ സൈബർ അധിക്ഷേപങ്ങൾ, ലൈംഗിക ആക്രമണങ്ങൾ, കുട്ടികൾക്ക് നേരേയുള്ള അക്രമണങ്ങൾ എന്നിവ ഏറിവരുന്ന സാഹചര്യത്തിൽ ഇത്തരം ഭീഷണകൾക്കതിരെയുള്ള അവബോധം വിദ്യാർത്ഥികൾ സൃഷ്ടിക്കപ്പെടേണ്ടത് അത്യാവശ്യമാണ്. സൈബർ അക്രമണങ്ങൾക്ക് പൂർണ്ണമായ അർത്ഥത്തിൽ നിർവചനം നൽകപ്പെടാത്തതും ഈ രംഗത്ത് പോരായ്മയാണ്. ജസ്റ്റിസ് ഡോ. കെ. നാരായണ കുറുപ്പ് തന്റെ പ്രഭാഷണത്തിൽ പറഞ്ഞു. കുസാറ്റ് സെമിനാർ കോംപ്ലക്സ് മിനി ഹാളിൽ നടന്ന പരിപാടിയിൽ കുസാറ്റ് വൈസ് ചാൻസലർ ഡോ. പി. ജി. ശങ്കരൻ അദ്ധ്യക്ഷനായി. ന്യൂഡൽഹിയിലെ നാഷണൽ സൈബർ സെക്യൂരിറ്റി റിസർച്ച് കൗൺസിൽ ഡയറക്ടറും ഐആർഐടിഎ സൈബർ സെക്യൂരിറ്റി വൈസ് പ്രസിഡന്റുമായ ഡോ. ഇ. ഖലീറാജ് വിശിഷ്ടാതിഥിയായി. കമ്പ്യൂട്ടർ ആപ്ലിക്കേഷൻസ് വകുപ്പ് മേധാവി ഡോ. എം വി ജൂഡി സംസാരിച്ചു.

റൂസ പ്രൊജക്ടിൽ ഏകദിന ശില്പശാല സംഘടിപ്പിച്ചു

കേരളത്തിലെ പ്രാഥമികാരോഗ്യ കേന്ദ്രങ്ങളുടെ കാര്യനിർവഹണം നയമപരമായസമീപനത്തെയും കുറിച്ച് റൂസ പ്രോജക്ടിന്റെ ഭാഗമായി കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാലയുടെ പ്രൊഫഎൻ ആർ മാധവമേനോൻ ഇന്റ്റർ ഡിസിപ്ലിനറി സെന്റർ സെമിനാർ (ഐസിആർഇപി) ഹാളിൽ വച്ച് നടത്തിയ ഏകദിന വർക്ഷോപ് ബഹുമാനപ്പെട്ട കേരള ആരോഗ്യ, കുടുംബക്ഷേമ പ്രിൻസിപ്പൽ സെക്രട്ടറി ഡോ. മുഹമ്മദ് ഹനീഷ് ഐഎഎസ് ഉദ്ഘാടനം നിർവഹിച്ചു. ഐസിആർഇപി ഡയറക്ടർ വാണി കേസരി അധ്യക്ഷയായ ചടങ്ങിൽ ആരോഗ്യ കേന്ദ്രങ്ങളുടെ ഘടന, പ്രവർത്തങ്ങൾ, പരിവർത്തനം, നിയന്ത്രണം, തദ്ദേശ സ്വയംഭരണ സ്ഥാപനങ്ങൾക്ക് ആരോഗ്യമേഖലയിലുള്ള പങ്ക് തുടങ്ങിയ വിവിധ വിഷയങ്ങളെ സംബന്ധിച്ചുള്ള ക്ലാസ്സുകളും ഓപ്പൺ ഫോറവും സംഘടിപ്പിച്ചു. ശില്പശാലയ്ക്ക് ആരോഗ്യമേഖലയിലെ പ്രശസ്തരായ ഡോക്ടർമാർ നേതൃത്വം നൽകി.

ഹിന്ദി ദിനവും ഡോ. രാമചന്ദ്ര ദേവ് പുരസ്കാര വിതരണവും

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല ഹിന്ദി വകുപ്പ്, ഛാത്ര പരിഷത്ത് എന്നിവരുടെ സംയുക്ത ആഭിമുഖ്യത്തിൽ നടന്ന ഹിന്ദി ദിനാചരണം റീജിയണൽ ലേബർ കമ്മീഷണർ ജയന്ത കുമാർ ഭട്ടാചാര്യ ഉദ്ഘാടനം ചെയ്തു.

ഛാത്ര പരിഷത്ത് പ്രസിഡന്റ് അനൂഷ ബി അദ്ധ്യക്ഷയായ ചടങ്ങിൽ ജെ.എൻ യു പ്രൊഫസർ ഗരിമ ശ്രീവാസ്തവ, പ്രശസ്ത കവി നീലോത്പ, വകുപ്പ് മേധാവി ഡോ. കെ അജിത, അസോസിയേറ്റ് പ്രൊഫസർ ഡോ. എ. കെ ബിന്ദു, ഛത്ര പരിഷത്ത് സെക്രട്ടറി പൂജ കെ പി, ജോയിന്റ് സെക്രട്ടറി നേഹ ജോണി തുടങ്ങിയവർ സംസാരിച്ചു.

ഹിന്ദി വകുപ്പ് സംഘടിപ്പിച്ച അഖില കേരള ഹിന്ദി ക്വിസ് മത്സരത്തിൽ എസ്. ശയ പ്രിയ ടി പ്രകാശ് (കുസാറ്റ്), ആഷ്ബി, ദ നായർ (യൂണിവേഴ്സിറ്റി കോളേജ് പാളയം), പൂജ ദേവ്, അനു ടോമി (നിർമല കോളേജ്, മൂവാറ്റുപുഴ) എന്നിവർ ഒന്നും രണ്ടും മൂന്നും സ്ഥാനം നേടി. വിജയികൾക്ക് ബാങ്ക് ഓഫ് ബറോഡ റീജിയണൽ ഹെഡ് വിമൽ ജിത്ത് പി. പുരസ്കാരങ്ങൾ സമ്മാനിച്ചു. ഹിന്ദി വകുപ്പിൽ പുതുതായി ഏർപ്പെടുത്തിയ റിട്ടയേർഡ് പ്രൊഫസർ ഡോ. രാമചന്ദ്ര ദേവിന്റെ പേരിലുള്ള എവർ റോളിംഗ് ട്രോഫി ഒന്നാം സ്ഥാനം നേടിയവർക്ക് സമ്മാനിച്ചു.

List of PhD Theses Published in 2023

1. **Sajith K S,** *Coastal Land use cover changes in parts of Kerala using remote sensing and GIS remote,* Dr. Harindranathan Nair
2. **Sita Radhakrishnan,** *Modelling and Evaluation of Mechanical Ventilator Advisory system using fuzzy logic and Machine Learning Method,* Dr. Johney Issac
3. **Bini B Nair,** *Crystal Growth of Pencil,* Interconnected and Hexagonal Pillar Shaped Zno Nanostructures For Photocatalytic Applications, Dr. M Junid Bushiri
4. **Lidya T V,** *Fabrication and Characterization of Doped and Undopped ZnO thin films by ALD Method and their Application in UV Detectors,* Dr. K Rajeev Kumar
5. **Nisha S Raj,** *A Graph-based Learning Path Recommendation Model for Adaptive Personalized Learning Environments,* Dr. Renumol V G
6. **Baburaj P P,** *Effect of Arabian Sea Cyclones during the Onset Phase of Indian Summer Monsoon,* Dr. S Abhilash
7. **Deepa G,** *Development of Marine Polysaccharide Based nanoparticles for targeted delivery of the anticancer drug cytarabine,* Dr. T P Sajeevan
8. **Parvathy C,** *Investigations on Transition Metal Based Nano-Catalysts for Thermal Decomposition of Ammonium Perchlorate,* Dr. R Rajeev
9. **Anju K S,** *Development of Plasmonic Hybrid Nanostructures For Surface-Enhanced Raman Spectroscopy,* Dr. M K Jayaraj
10. **Govind G Nampoothiri,** *Studies on The Electron Velocity Distributions in The Solar Wind At 1 Au During Solar Transient Events,* Dr. R Sathees Thampi
11. **Arun T J,** *Spatial and Temporal Studies on Sediment and Soil of Two River Systems from Diverse Climatic Settings, Southern India,* Dr. Reji Srinivas
12. **Smart K B,** *Photon and Charged-particle Interaction with Surface of the Europa,* Dr. C A Babu
13. **Aswin I C,** *Modelling Lifetime Data using quantile-based reliability measures,* Dr. P G Sankaran, Dr. S M Sunoj
14. **Midhun Shah Hussain,** *Biophysical coupling: Chlorophyll-a dynamics of the North Eastern Arabian Sea in a warming scenario,* Dr. A A Muhamed Hatha
15. **Remya T M,** *Characterization and Investigation of The Optoelectronic, Biological and Sensing Applications Of A Few 1,3,4-Oxadiazole-Phenothiazine Based Donor-Acceptor Systems,* Dr. P A Unnikrishnan
16. **Divya Soman,** *Assessment of Ecosystem Services from Parambikulam Tiger Reserve,* Dr. Syam Viswanath, Dr. V Anitha
17. **Mini P P,** *Development of Unimodel and Multimodel ASR Systems Based on Speech and EEG Signels for BCI Application,* Dr. R Gopikakumari, Dr. Tessamma Thomas
18. **Rajani S Ganga,** *Development and Standardization of Enrichment Protocol of Live Feed for Larval Rearing Of The Green Mussel, Perna Viridis (Linnaeus,1758),* Prof. Aneykutty
19. **Murali Mohanan,** *Effective and Improved Requirement Engineering,* Dr. K Sivaprasad
20. **Sarath N,** *Running Cosmic Vacuum and Recent Acceleration of The Universe,* Dr. Titus K Mathew
21. **Anju Baby,** *Comparative Transcriptome Profiling of Salinicola SP. MFB021 in response to salinity struss,* Dr. Toms C Joseph, Dr. K V Lalitha
22. **Thilakan T B,** *A Statistical Investigation on E - Waste Reduction Methods and its Utilization in industry Before Land fill,* Dr. P S Sreejith
23. **Simon E K,** *North-East Monsoon rainfall variability over south peninsular India in response to Air-Sea interaction processes,* Dr. R Sajeev
24. **Jidendra K B,** *Security Analysis of Block Ciphers and Design & Development of a new Light Weight Block Cipher,* Dr. Shahana T K
25. **Shilpa Subhash,** *Modelling and Analysis of Quantile-Based Information Measures and Their Applications,* Dr. S M Sunoj
26. **Ramesh Krishnan,** *Parametric Analysis of Heat Transfer Augmentation Using Water Bases Nanofluids in Miniaturized Systems,* Dr. Narayanan Namboothiri V N
27. **Chandini P K,** *Ecotoxicological Assessment of pesticide contamination in the mango plantations, Muthalamada, Palakkad District, Kerala, India,* Dr. Rajathy Sivalingam
28. **Manju K,** *An Integrated Framework for Extractive Multidocument Malayalam Summarization,* Dr. David Peter S
29. **Rasweef Ali M K,** *Preparation and characterization of chitin and chitosan from deep-sea shrimp shell wastes and application of chitosan in the recovery of protein-rich biomass from shrimp processing wash water and flocculation of microalgae,* Dr. S Sabu
30. **Pramod Pavithran,** *Design and Development of a Novel Cryptosystem for textual Data using Hyperchaotic System, Finite State Machine and DNA Cryptography,* Dr. Sheena Mathew
31. **Simimol A S,** *Enhancement of Fire Retardancy in Lignocellulosic Coir Using Eco-Friendly Formulations,* Dr. Anitha Das
32. **Anjit T A,** *Quantitative Microwave Imaging methods for Dielectric Profilin,* Dr. P Mythili
33. **Manju Joseph,** *Bio-assisted morphological tuning of zinc oxide nanoparticles for photonic applications,* Dr. M Kailasnath, Dr. V P N Nampoori
34. **Jayaprabha T,** *Design and Implementation of Multiparty Privacy Practice Methods Based on Privacy Preferences,* Dr. K Paulose Jacaob, Dr. Preetha Mathew K
35. **Kochaleema K H,** *Verification and Validation of Temporal Model in Safety-Criritcal Software Development Cycle - A Unified Modelling Language Approach,* Dr. G Santhosh Kumar
36. **Richu Rajesh,** *Estimation of Information Measures Under Length-Biased Sampling and Its Applications,* Dr. Rajesh, Dr. S M Sunoj

37. **E Rajitha,** *Anticompetitive practices by trade and Professional Associations with Special Reference to health care Sector in India,* Dr. Aneesh V Pillai
38. **Nisamol T A,** *Design and Development of Microstrip Low Pass Filter for Rf Communications,* Dr. Abdulla P
39. **Jayarani R,** *Fucoxanthin, Bioactive Lipids and Sulfated Polysaccharides from Brown Seaweed: Extraction and Formulation using Sustainable Chemistry Approaches,* Dr. Niladri Sekhar Chatterjee
40. **Jennath S,** *Trusted data management and decision fusion algorithms for building Distributed Intelligent Systems,* Dr. Asharaf
41. **Ahkil Sivanandan,** *Hindi Yatra Sahitya Mein Himalaya,* Dr. Aneesh K N
42. **Niya Benny,** *Biocoenosis of microphytobenthos in the selected mangrove ecosystems of Southwest coast of India,* Dr. K B Padmakumar
43. **Prasanth K,** *Aerodynamic Analysis of Sail Assisted Ships Using Computational Fluid Dynamics for Improved sail Geometry and Performance,* Dr. Sivaprasad K
44. **Rajani P P,** *Cure Rate Regression Models in Survival Analysis,* Dr. P G Sankaran
45. **Remya Unnikrishnan,** *Molecular Diagnostic Markers for Authentication and Early Sexing of Coscinium Fenestratum (Gaertn) Colebr,* Dr. Suma Arun Dev
46. **Suresh Babu N,** *Study on The Bond -Slip Behaviour of Geopolymer and Conventional Concretes After Exposure to Different Temperatures,* Dr. George Mathew
47. **Swathi Balakrishnan,** *Genomic Characterisation and Gene-Ecological Zonation for Sustainable Management Of Teak Genetic Resources,* Dr. Suma Arun Dev
48. **Unnikrishnan V,** *Development of Polyol Cored Dendritic Polymers for Catalysis Applications,* Dr. K Sreekumar
49. **Adrine Antony Correya,** *Studies on synthesis and characterisation of certain bismuth oxide nano composite for photonic applications,* Dr. A Mujeeb, Dr. V P N Nampoori
50. **Savitha D P,** *An Investigation on the Biological and Analytical Properties of Isatin Derived Novel Schiff Base,* Dr. P V Mohanan
51. **Sarith Divakar M,** *Design and development of novel data analysis techniques for crop yield mapping using remote sensing satellite imagery,* Dr. Sudheep Elayidom M
52. **Sanchu S,** *Analysis of Microstructure Evolution During Heat Treatment of En3 and En8 Steels Using Voronoi Algorithm,* Dr. Biju N, Dr. Narayanan Namboothiri V N
53. **Sisuma M S,** *Statistical Analysis of Recurrent Event Competing Risks Data,* Dr. P G Sankaran
54. **Jabir K V T,** *Studies on metabeuristic based multi objective workflow scheduling scheme in infrastructure as a service (IaaS)cloud,* Dr. David Peter S, Dr. Preetha Mathew
55. **Gayatri Krishna R,** *Functioning of glutamate and glutamate transporters in Epstein- Barr virus mediated oncogenesis,* Dr. Mohanan
56. **Praseetha R Nair,** *Cissus quadrangulasis Linn Stem Extract and Fiber Assimilated Natural and Synthesis Biodegradable Polymer Seafflods for Regenerative Bond tissue Engineering: In vitro and In vivo Facets of Biomineralization and Osteogenisis,* Dr. Sailaja G S
57. **Remsha M,** *Investigations on Planar Microwave Sensors for Material Characterization,* Dr. P Mohanan
58. **Shyju K,** *Nav Vampanthi Kaviyon Ki Kavitaon Mein Pratirodh Ki Sanskrit,* Dr. N Mohanan
59. **Divya D,** *Characterising selected algorithms used for outlier detection and development improved combinations,* Dr. M Bhasi, Dr. Santhosh Kumar M B
60. **Malathi S,** *Frameworks for Organized Crowd Sourcing in Software Quality Assurance,* Dr. B Kannan
61. **Chaithanya E P,** *A Study of Role Played by the State in Protection of Traditional Knowledge in India,* Dr. Kavitha Chalakkal, Dr. M Bhasi
62. **Manu Shaji,** *Development of Metal Oxide Thin Film Transistors and Heterojunctions For Sensor And Neuromorphic Memory Applications,* Dr. M K Jayaraj, Dr. Saji K J
63. **Emilson V V,** *A Study on The Coast-Benefit Analysis Of International Container transshipment Terminal, Vallarpadam-The Port Based Special Economic Zone,* Dr. Arunachalam P
64. **Greeshma Elizabeth A,** *Adhunik Hindi Katha Sahitya Mein Transgender Ka Jeevan Yatharth,* Dr. R Sasidharan
65. **Fathima Beevi R,** *Hindi Ki Samakaleen Dalit Alochana: Ek Adhyayan,* Dr. K Ajitha
66. **Jaison Jacob,** *Queueing Inventory with Reservations,* Cancellations / Random Environments, Dr. B Lakshmy
67. **Rahul C,** *Text and Speech Based Unimodel and Multimodel Bidirectional Sanskrit-Malayalam Machine Translation System,* Dr. R Gopikakumari
68. **Ramdass S,** *A Comparative Study on the shear behaviour of concrete Deep Beams Reinforced with Steel and FRP Bars,* Dr. Job Thoams
69. **Robert V Thomas,** *Sustainable construction Framework and Alternative Fine Aggregates in Concrete Masonry Blocks,* Dr. Deepa G Nair
70. **Krishnapriya R S,** *Molecular cloning, characterisation and expression of a few immune genes of the Asian seabass (Lates Qlcarifer) in response to experimental betanodavirus infection,* Dr. T P Sajeevan
71. **Archana Babu S,** *An Integrated Approach for Mechanically Robust and Flame-Resistant HDPE-Coir Fibre Composites for Strusrall Applications,* Dr. Sunil K Narayankutty
72. **Samitha K A,** *Assessment and Mapping of Soil Attributes in Pineapple (Ananas Comosus) Cultivated Agro-ecological Units of Ernakulam District,* Kerala, Dr. Rajathy Sivalingam
73. **Natasha P,** *Predictability of Returns in Indian Stock Market,* Dr. S Rajitha Kumar
74. **Girija O K,** *Design and development of efficient techniques for early breast cancer detection based on different features from digitized mammograms,* Dr.Sudheep Elayidom M
75. **Revathy Rajan A R,** *Integrated Bioprocessing of Coir Fibers Utilizing the Lignolytic Gut Microflora of Termites and Fruit Extracts Of Averrhoa Bilimbi,* Dr. Anith Das Ravindranath
76. **Syama K S,** *Effect of Online Customer Review Characteristics on Branding Outcomes And Purchase Intention: Insights From Multiple Experiments,* Dr. Manoj Edward
77. **Jayalekshmi S,** *Bivariate Laplace Transform Oederings:*

Some Properties and Applications, Dr. Rajesh G,

78. **Muhammed Anees V,** *Modelling Crowd Patterns and Detection of Abnormal Behaviours from High -density Videos using Computer Vision Techniques,* Dr. G Santhosh Kumar
79. **Veena D'cruz,** *On Some Generalizations of Lindley Distribution And Thinning Based Lindley Models For Analyzing Integer-Valued Time Series,* Dr. Irshad M R
80. **Himanshu Pokhriyal,** *Modelling Time Series in the Presence of Measurement Error,* Dr. N Balakrishna
81. **Athira U Nambeesan,** *Role of Ocean Atmosphere coupled processes over Indian Ocean basin on onset and active phases of Indian Summer Monsoon,* Dr. Abhilash S
82. **Sruthy Manmadan,** *Design and Development of Enhanced Mutly Model Deep Learning Frameworks for Visual Questain Answering (VQA),* Dr. Binsu C Kovoor
83. **Pramod P,** *High Performance FIR Filter Architectures Using Algorithm with Level Transformation and Improved Add-Multiply Operations,* Dr. Shahana T K
84. **Vignesh Karthik S A,** *Factors Influencing Customer Loyalty In Online Customer To Customer (C2c) Plat Form,* Dr. Moly P Koshi
85. **Siby K M,** *A Study on Shrimp Global Value Chain from Kerala,* Dr. P Arunachalam
86. **Bini Francis,** *Prevalence and Risk Assessment of Biofilm Associated Escherichia coli and Vibrio parahaemolyticus from Food Contact Surfaces in Seafood Pre-processing Plant and Its Control Using Bioagents,* Dr. Mohamed Hatha
87. **Muhammed Ashefas C H,** *Studies on Nonlinear Interactions In Qubit-Cavity Systems,* Dr. Ramesh Babu
88. **Biju P N,** *Analysis of Response of Concrete Gravity Dams Subjected To Earthquake Loading,* Dr. Glory Joseph
89. **Sowmya M R,** *Predictive modelling and analysis of reference evapotranspiration using machine learning techniques,* Dr. Santhosh Kumar M B, Dr. Suraj K Ambatt
90. **Femy N S,** *Advances in Predictive Mathematical Models for Time-Series Data Analysis Using Self-Organizing Maps and Fuzzy Logic,* Dr. Sasi Gopalan
91. **Anjaly Thambi,** *Characterization and evaluation of small molecular bioactives and polysaccharides from the prominent marine macroalgae belonging to the classes Phaeophyceae and Florideophyceae,* Dr. Kajal Chakraborty
92. **Arathi Krishna,** *Workplace Bullying: Studies On Silence Behaviour Among Academicians,* Dr. Devi Soumyaja
93. **Praseetha B S,** *Environmental magnetism and geochemical characteristics of estuarine sediments,* Beypore,Kerala,SW India, Dr.T N Prakash
94. **Raj Sha M M,** *Investigations on photo-thermal and nonlinear and their non- composites with gold and silver,* Dr.A Mujeeb
95. **Jae-Dong Kam,** *Trade, Investment Partnership Between India And South Korea: Progress And Current Issues,* Dr. P Arunachalam
96. **Athira Babu,** *Multiframelet Expansion for the Numerical Solution of PDEs,* Dr. Noufal A
97. **Vineetha Mathew,** *Financial Well-Being: A Gendered Perspective On Psychological Enablers And Variers,* Dr. Santhosh Kumar P K
98. **Anil Johny,** *Prediction of Malignancy in Breast Histopathology Images with Deep Learning Model using Resource Limited Embedded Devices and Edge Computing,* Dr. K N Madhusoodanan
99. **Nanditha Narayanan,** *The restriction on the Fundamental right to Artistic Freedom under the Right to Freedom of Speech and Expression in their Reasonableness,* Dr. P S Seema
100. **Tripti C,** *Enhancement of Medium Access Control Protocol for Vehicular Ad Hoc Networks,* Dr. Jibukumar M G
101. **Thoufeeq S,** *Engineering Nickel catalysts for Enhanced water splitting small Molecular Oxidation Reactions,* Dr. M R Anantharaman
102. **Gireesh Kumar A,** *Solar,* Variable Speed Diesel Generator and Lithium-Ion Battery Based Hybrid Power System for Remote Hamlets, Dr. C A Babu
103. **Subin P S,** *Fabrication of Metal Oxide Based Memristive Artificial Synapses for Neuromorphic Computing Applications,* Dr. M K Jayaraj, Dr. S Jayalekshmi
104. **Nisa Anil,** *Air-Sea Interaction processes over the Indo-Pacific region and its impacts on Indian Ocean,* Dr. R Sajeev
105. **Rahul Manohar O,** *Investigation of Radio Wave Absorbers Using Eco-Friendly Materials and Metamaterials,* Dr. Anju Pradeep
106. **Twinkle Sathish,** *Community dynamics and ecology of microphytoplankton with emphasis on harmful species along the South Eastern Arabian Sea,* Dr. K B Padmakumar
107. **Ninu Jose,** *Molecular Fingerprints and Geochemical Interactions Of Organo-Nano Composites From Forest Floor Humic Acids In Western Ghats Of Kerala,* Dr. Sandeep
108. **Harishma,** *Carbon Dynamics in Mangrove Systems Of Kerala,* Dr. V B Sreekumar
109. **Deepthi,** *Target Detection from Hyperspectral images using Hybrid Spectral Similarity Measures and Machine Learning Algorithms,* Dr. Tessamma Thomas, Dr. Deepa Sankar
110. **Abhilash A P,** *Design and Development of High Gain MIMO Antennas for 5G and UWB Applications,* Dr. C K Aanandan
111. **Asha S Kutty,** *Role of Gameful Experience & Game Involvement in Affect Learning Outcomes,* Dr. Manu Melwin
112. **Ann Loretta Correya,** *Involvement in Affect Learning Outcomes,* Dr. Vani Kesari
113. **Savitha K N,** *Fourier and wavelet Analysis on the Equivalence class of Normalization Function for Data preprocessing in AI models,* Dr. Sasi Gopalan
114. **Kishore Ravindran,** *Investigations on The Catalyst Properties Affecting the Conversion, Selectivities and Deactivation in Acetylene Hydrogenation Reaction,* Dr. G Madhu, Dr. V R Renjith
115. **Saritha A K,** *A Study on Entrepreneurial Motivation and Intention of Scheduled Caste Graduates To Promote Entrepreneurship As A Strategic Affirmative Tool,* Dr. Mavoothu
116. **Rani V,** *A Study on The Removal of Heavy Metals and Sulphates from Contaminated Soils Using Chitosan And Fly Ash,* Dr. Sobha Cyrus
117. **Minu John,** *Factors Affecting Repayment of Education Loan with Reference To Beneficiaries In Kerala,* Dr. Moli P Koshy
118. **Justin George,** *Ex-Post Effect of FDI On India's Current*

Account Of Balance Of Payments: A Study Of FDI Firms In Manufacturing Sector, Dr. P Arunachalam

119. **Nashad M,** *Studies on the Marine Fish Parasites of Andaman and Nicobar Islands,* Dr. A. A Mohamed Hatha
120. **Ansha K K,** *Design and Investigation of Terahertz Antennas for 5G and beyond 5G,* Prof. (Dr.) Abdulla P
121. **Reshma M L,** *Ikkeesween Sadi Ki Hindi Kavita Mein Vyangya: Ek Adhyayan (Chuni Huyi Kavitaon Ke Vishesh Sandarbh Mein),* Dr. K Ajitha
122. **Ajith Kumar R,** *Determinants Of Continuance Intention To Use Agri-Specific Mobile Apps – An Application Of Extended Utaut2 Model,* Prof. (Dr.) Jagathy Raj V P
123. **Shaija P J,** *Design, Development and Performance Analysis of Optimised Non-Linear Controllers for Induction Motor Drives,* Dr. Asha Elizabeth Daniel
124. **Anil Kumar K P,** *Studies On Temporal Variations In The Abundance Of Caridean Larval Forms (Class Crustacea) In Three Ecological Regions Of Vembanad Lake,* Dr. M Harikrishnan
125. **Ronia Liza Mathew,** *Investment Decision Making Behaviour of Individual Investors in the Indian Stock Market: An Exposition of Psychological and Attitudinal Precedents,* Dr. S Rajitha Kumar
126. **Athira m.,** *virtual synchronous machine control for frequency and voltage regulation in a parallel inverter-based low-voltage ac microgrid,* Dr. Asha Elizabeth Daniel
127. **Ehsan Jahanian,** *Regulatory Framework and Practices on Maritime Search and Rescue Operations: A Critical Study,* Dr. Binu Mole K
128. **Sulok S K,** *Conceptual Dimensions Of Geographical Indications In India: A Critical Evaluation In The Light Of Eu Practices,* Dr. N S Gopalakrishnan
129. **Bindu B Nayar,** *Water Quality Of Periyar And Muvattupuzha Rivers In Ernakulam District,* Dr. N Chandramohanakumar
130. **Shilpa S.,** *Time Resolved Imaging and Optical Emission Spectroscopy of Colliding Laser Produced Plasmas,* Prof. (Dr.) Pramod Gopinath
131. **Naveen Gopal,** *protection of trade secrets in India: A Study on Select industries in Kerala,* Prof. (Dr.) N S Gopalakrishnan
132. **Saswata Maitra,** *Feeding ecology and trophic dynamics of major carnivorous fishes inhabiting Cochin Estuary,* Dr. M Harikrishnan,
133. **Sumayya Asharaf,** *Development of Polyketide class of compounds from seaweed associate d Firmicutes and their pharmacological potential,* Dr. Kajal Chakraborty
134. **Rema N R,** *Investigations into Extreme Compression of Fingerprint Images for Identification purpose using Multiwavelet Transform,* Dr. P Mythili
135. **Ameer P A,** *Evaluating the Performance Of Interest-Free Microfinance Institutions In Kerala: A Double Bottom Line Approach,* Dr. P Arunachalam
136. **Ann Varghese,** *Investigations on Deep Learning Techniques for Cardiac Arrhythmia Decision Support to Aid Clinical Diagnosis of ECG Signals,* Dr. James Kurian
137. **Sreenath A V,** *The structure and dynamics of deep convective clouds and the characteristics of precipitation over India and adjoining oceanic region,* Dr. S Abhilash
138. **Vaishak N,** *Studies on blends of natural rubber and butadiene rubber with special reference to tyre tread applications,* Dr. Siby Varghese
139. **Manoj G,** *Coupling and Decoupling Schemes For High Power Ac, Dc And Data Transmission Over Long Single Core Coaxial Cable For Airborne Sonar Applications,* Dr. Sona Kundukulam
140. **Anu Susan Cheriyan,** *Biogeochemical characterization of a Tropical Mangrove Ecosystem,* Dr. Chandramohanakumar N
141. **Sonia Sam,** *Electrochemical and Optical Sensors For The Individual And Simultaneous Determination Of Some Molecular Biomarkers,* Dr. K Girish Kumar
142. **Anitha Prakash,** *Investigations On Optical Characteristics Of Neutral Red And Bodipy,* Dyes For Photonic Applications, Dr. A Mujeeb, Dr. P Radhakrishnan
143. **Aparna Pradeep V K,** *Gram-Schmidt in Quadratic Groups: A Comparative Study of Elementary Subgroups,* Dr. Ambily A A
144. **Judine John Chacko,** *Studies On Reproduction And Ontogenic Growth Of Nilgiri Melon Barb Haludaria Fasciata (Jerdon,1849) And Their Application In Developing Its Seed Production,* Dr. Mini Sekharan N
145. **Anjali Krishna G,** *A Study on the synthesis' biological and analytical properties of imidazole ligands and their transition metal complexes,* Dr. P V Mohanan
146. **Sindhu S,** *On Queues with Imperfect Service/Working Vacation/Breakdown and Interdependence between Arrival and Service Processes,* Dr. A Krishnamoorthy, Dr. B Lakshmy
147. **Sisma Samuel,** *Studies on Tropical Deep Convective Cloud Cores and Associated Features using Megha - Tropiques Observations,* Dr. Nizy Mathew
148. **Vishnu Sankar,** *Multi-Fuel Performance and Emission Characteristics Of A Low Heat Rbiection Diesel Engine,* Dr. Gireeshkumaran Thampi, Dr. Radhakrishna Panikar
149. **Athira Krishnan,** *Geetanjali Shree ka Katha Sahitya: Ek Anusheelan,* Dr. Girish Kumar K K
150. **David Chris Raju,** *Cumulative Tsallis Entropy and its Associate Measures: Properties and Applications,* Dr. S M Sunoj
151. **Beena A L,** *Information Security Risk Analysis Of Digital Libraries In South India,* Dr. Humayoon Kabir S
152. **Sankara Nayaki K,** *Analysis, Design and Implementation of Novel Algorithms for Community Detection and Preventing Private Information Inference Attacks on Social Networks,* Dr. Sudheep Elayidom M, Dr. R Rajesh
153. **Sariga P K,** *Indigenous Ornamental Fisheries Management in Chalakudy River,* Kerala, S. India for Sustainable Fisheries, Dr. Mini Sekharan N
154. **Keziya James,** *Microplastic contamination in selected coastal habitats and biota of south India,* Dr. V Kripa
155. **Deepa Sebastian,** *studies on Functionalized Graphene and Silicon Quantum Dots for Sensing Application,* Dr. Kala R.

Printed and published by Dr. Meera V, Registrar, Cochin University of Science and Technology, Kochi-682 022
Edited by Public Relations Office, Cochin University of Science and Technology, Kochi-682 022
Designed by DZAIN. Printed at Indu Systems, Kalamassery