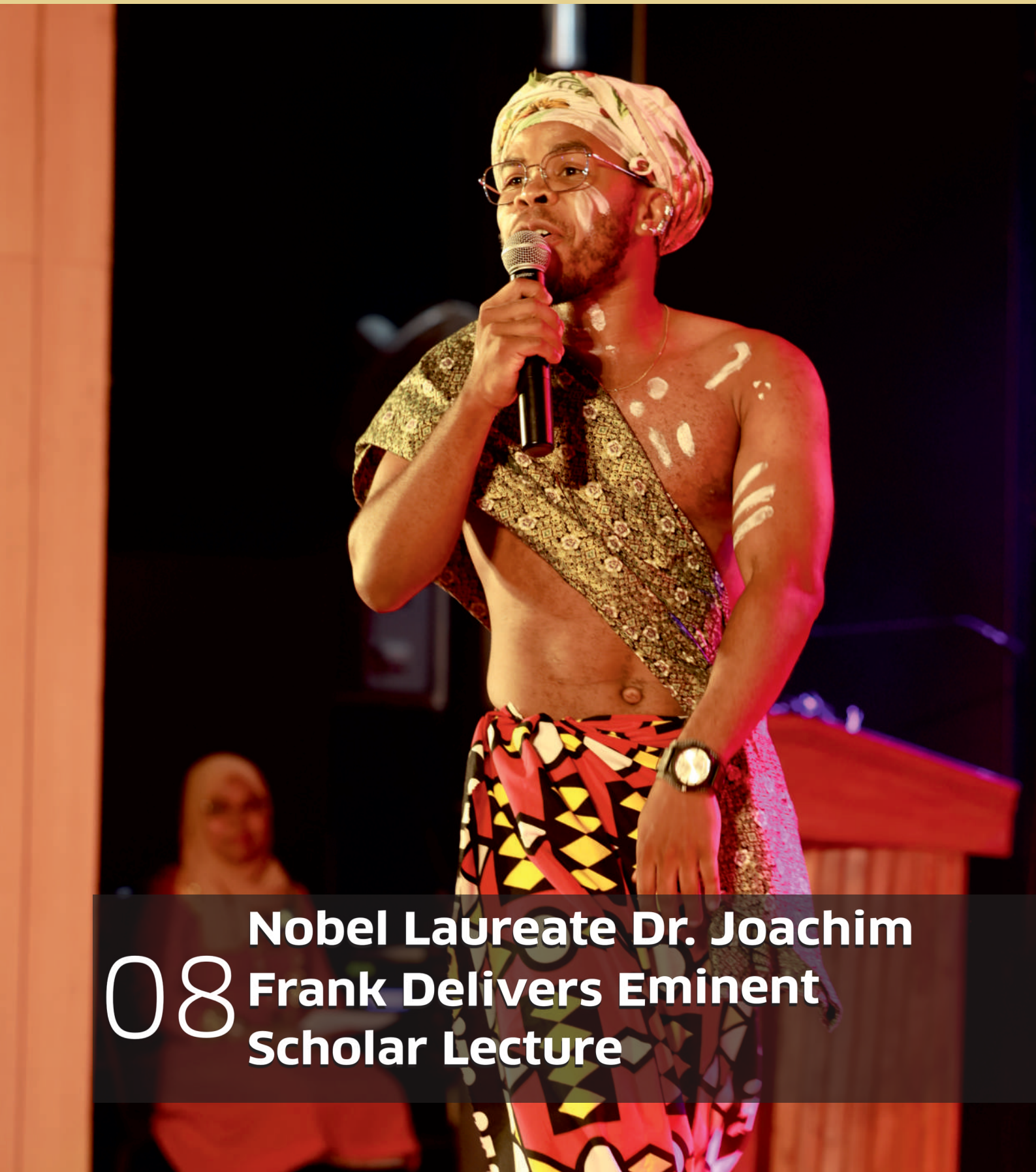
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JULY-DEC 2025

NEWSLETTER OF COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY



08 **Nobel Laureate Dr. Joachim Frank Delivers Eminent Scholar Lecture**

Vision & Mission

Cochin University of Science and Technology aims to become a globally recognised institution by continuously enhancing academic quality, advancing research in frontier areas, and providing state-of-the-art infrastructure, while developing globally competent human resources through modern education, advanced training, research, innovation, industry collaboration, and global academic exchange.

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Vice-Chancellor's Message

It gives me immense pleasure to present this edition of our University Newsletter, which showcases the vibrant academic, research, and outreach activities of our institution. Each milestone featured here reflects the dedication, innovation, and collaborative spirit of our students, faculty, researchers, and staff.

As we continue to move forward in an era marked by rapid technological advancement and global transformation, our commitment remains steadfast — to nurture talent, promote cutting-edge research, and uphold the highest standards of academic excellence. We are proud of the strides we have made in strengthening industry collaborations, fostering entrepreneurship, and creating meaningful societal impact.

Our University stands as a dynamic centre of learning where ideas are encouraged, creativity is celebrated, and leadership is cultivated. I commend every member of our academic community for their tireless efforts and contributions that continue to enhance the reputation and legacy of our institution.

Let us continue to work together with determination and vision to achieve greater heights in the days ahead.

With best wishes,

Prof. Dr. M. Junaid Bhushiri
Vice-Chancellor
CUSAT

Disclaimer

The views and opinions expressed in this newsletter are those of the respective authors and contributors and do not necessarily reflect the official policy or position of the University. The University shall not be held responsible for any errors or omissions in the content.

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CUSAT Ranks 6th among State Public Universities in NIRF 2025

CUSAT recorded a notable improvement in its performance in the National Institutional Ranking Framework (NIRF) 2025, reinforcing its growing stature in higher education and research. The University advanced from the 10th to the 6th position among State Public Universities, reflecting consistent progress across key academic and institutional parameters.



In the Overall Category, CUSAT entered the Top 50 institutions in the country, marking a significant milestone in its national standing. The University also improved its position in the University Category, moving up from Rank 34 to Rank 32, underscoring sustained efforts towards academic excellence.

Among its constituent schools, the School of Legal Studies secured an impressive All-India Rank of 13, highlighting the strength of its legal education and scholarship. The School of Management Studies was ranked 82 in the Management Category, emerging as the second-best institution in Kerala, next only to IIM Kozhikode.

CUSAT Advances in THE World University Rankings 2026

CUSAT achieved a significant milestone in global higher education by advancing to the 1001–1200 band in the Times Higher Education (THE) World University Rankings 2026, marking a notable improvement from the 1201–1500 band in the previous edition.

This advancement represented the University's first upward movement in four years, following a consistent placement in the 1201–1500 range from 2022 to 2025. With this performance, CUSAT emerged as the second-ranked university in Kerala and secured a place among the top 50 institutions in India in the 2026 rankings.

The THE World University Rankings evaluated institutions across five key parameters—Teaching, Research Environment, Research Quality, International Outlook, and Industry Engagement. CUSAT registered improvement across all assessed areas, with Research Quality and International Outlook contributing significantly to the upward shift.

The Research Quality score improved from 29.9 in 2025 to 35.8 in 2026, while the International Outlook score rose from 21.8 to 25.6, reflecting enhanced research impact and strengthened international collaborations.

This achievement added to CUSAT's recent upward trajectory across major ranking frameworks, including NIRF, KIRF, Times Interdisciplinary Ranking, Times Impact Ranking, and QS Sustainability Ranking, positioning it as the only university in India to record improvement across all major national and international rankings during the year.

The Vice-Chancellor, Dr. M. Junaid Bushiri, attributed the progress to the collective efforts of the faculty, researchers, students, and staff, reiterating the University's commitment to academic excellence, innovation, and global engagement.

CUSAT Registers Major Gains in Global Rankings

CUSAT recorded significant progress in global higher education rankings, marking an important milestone in its pursuit of research excellence, interdisciplinary innovation, and sustainability leadership. The University achieved notable improvements in two leading international assessments—the Times Higher Education (THE) Interdisciplinary Science Rankings 2026 and the QS World University Rankings: Sustainability 2026.

In the THE Interdisciplinary Science Rankings 2026, CUSAT was placed in the 251–300 global band, advancing from the 351–400 band in the previous year. It emerged as the only university from Kerala featured in the global list and secured the 16th position nationally, underscoring its leadership in interdisciplinary scientific research. The ranking assessed institutions on their capacity to address complex scientific challenges through cross-disciplinary collaboration, reflecting CUSAT's strengthened research ecosystem across science, engineering, marine, and technology domains.

Further enhancing its global profile, the University attained the 777th position worldwide in the QS Sustainability Rankings 2026, registering an improvement of nearly 200 places from the 971–980 band in the previous edition. CUSAT ranked first in Kerala and 32nd in India, placing it among leading Indian institutions committed to environmental stewardship, social responsibility, and governance excellence.

CUSAT also demonstrated strong performance in the QS Asia University Rankings, securing the 509th position, an advancement from the 601–620 band in 2025.

CUSAT Tops Kerala in India Today Magazine University Rankings 2025

CUSAT emerged as the No. 1 university in Kerala in the India Today Magazine University Rankings 2025, reaffirming its leadership in higher education within the State. At the national level, the University secured the 7th position among Government Universities funded by the Centre and State Governments and was ranked as the third-best State University in India.

These achievements complemented CUSAT's recent strong performance in the NIRF Rankings 2025, where the University ranked 6th among State Public Universities and was featured among the Top 50 universities in the Overall Category, further strengthening its national academic standing.

B.Tech Programme in Naval Architecture Re-accredited by NBA

The B.Tech programme in Naval Architecture and Ship Building offered by the Department of Ship Technology has been re-accredited by the National Board of Accreditation (NBA). The accreditation is valid for three academic years, from 2025–2026 to 2027–2028.



Honouring Excellence: Distinguished Alumni Awards at CUSAT

CUSAT honoured its eminent graduates through the presentation of the Distinguished Alumni Awards, the highest recognition conferred by the CUSAT Alumni Network. The awards ceremony was held at the University Seminar Complex in November 2025 and was presided over by Vice-Chancellor Dr. M. Junaid Bushiri. Shri P. Rajeeve, Minister for Industries, Law, and Coir, distributed the awards.



AWARD WINNERS WITH HON. MINISTER FOR INDUSTRIES, LAW & COIR, P. RAJEEVE, CUSAT VICE CHANCELLOR DR. M. JUNAID BUSHIRI, SYNDICATE MEMBERS, REGISTRAR

The Distinguished Alumni Awards recognise former students who have brought distinction to the University through exemplary contributions in academics and research, industry and enterprise, and social engagement. The honours are presented under three categories: Academic and Research Excellence; Leadership and Innovation in Business, Industry, and Enterprise; and Social Interventions Creating Positive Impact.

Under the Academic and Research Excellence category, Dr. Thamban Meloth, Director, National Centre for Polar and Ocean Research, Goa (Alumni of Marine Geology and Geophysics), was honoured for his significant contributions to polar and ocean research. The award for Leadership and Innovation in Business, Industry, and Enterprise was presented to Dr. Cherian Kurien, Managing Director, HIC-ABF Special Foods Pvt. Ltd (Alumni of School of Industrial Fisheries). Lt. Col. Aneesh Mohan of the Indian Army Corps of Engineers (Alumni of School of Engineering) received the award in the category of Social Interventions Creating Positive Impact.

The ceremony was attended by several distinguished members of the University community, including Dr. Sasi Gopalan, Syndicate Member and Professor, Department of Mathematics; Dr. P. K. Baby, Syndicate Member and General Secretary, CUSAT Alumni Network; Dr. Santhosh Kumar G., Syndicate Member and Director, CIRM; Dr. D. Mavooth, Syndicate Member and Professor, School of Management Studies; Dr. Arun A. U., Registrar; and Dr. Sam Thomas, Director, IQAC.

CUSAT Recognised for Best Feedback Note at the National Conference of Chief Secretaries

CUSAT has received recognition for preparing the Best Feedback Note under the sub-theme Higher Education: Knowledge Economy as part of the 5th National Conference of Chief Secretaries organised under the leadership of NITI Aayog, on 15 November, 2025.

CUSAT Vice Chancellor Dr. M. Junaid Bushiri received the honour from Dr. A. Jayathilak IAS, Chief Secretary, Government of Kerala.

The felicitation ceremony was held at the Chief Secretary's Conference Hall in Thiruvananthapuram, where officers from various departments across the state who prepared the best feedback notes in other sub-themes were also honoured. CUSAT's report was selected as the top entry in the Higher Education category. This achievement has been featured on the 'Wall of Fame' in the conference portal.



VICE CHANCELLOR DR. M. JUNAID BUSHIRI RECEIVING THE HONOUR FROM DR. A. JAYATHILAK IAS, CHIEF SECRETARY, GOVERNMENT OF KERALA.

The report was recognised for its contribution towards strengthening the higher education sector and advancing the knowledge economy.

Early Childhood Education: Laying the Foundation; Schooling: Building Blocks; Skilling: Future-ready Workforce; and Sports and Extra-curricular: Beyond Classrooms were the other sub-themes of the conference.

Minister R. Bindu Inaugurates the Largest Hybrid HPC Facility at CUSAT

It is a matter of great pride that the Tejaswi HPC has been designed to support advanced research," said Dr. R. Bindu, Minister for Higher Education and Social Justice, and Pro-Chancellor of the Cochin University of Science and Technology (CUSAT). She was speaking at the inauguration of Tejaswi, the largest hybrid High-Performance Computing (HPC) facility established at a university level in South India on October 27, 2025.

"Both Tejaswi and the CUSAT Analytical Instruments Facility (CAIF) will be great assets for the university's future scientific progress," she added.

CUSAT Vice-Chancellor Dr. M. Junaid Bushiri presided over the function. Dr. G. Santhosh Kumar, Member of Syndicate and Director, CIRM, Member of Syndicate Dr. Sasi Gopalan, Dr. P. G. Sankaran, former Vice-Chancellor, Dr. Arun A. U, Registrar, Girish Kumar, Finance Officer, Dr. Sivanandan Achari, Dean of Science, and Dr. N. Manoj, Controller of Examinations, also participated in the ceremony.

The Tejaswi HPC system is a hybrid high-performance computing facility with a sustained capacity of 350 teraflops. It comprises 102 compute nodes, 9 GPU nodes, and 2 petabytes of file storage. The system was designed and implemented jointly by Hewlett Packard Enterprise (HPE) and StarOne IT Solutions and has been installed at the CUSAT Centre for Information Resource Management (CIRM). It will support advanced research in climate modelling, computational engineering, artificial intelligence, and machine learning.



DR. R. BINDU, MINISTER FOR HIGHER EDUCATION AND SOCIAL JUSTICE, INAUGURATING TEJASWI, THE LARGEST HYBRID HIGH-PERFORMANCE COMPUTING (HPC)

Funded through the Kerala Infrastructure Investment Fund Board (KIIFB), Tejaswi was established using ₹26 crore from the ₹230 crore allocated to CUSAT under the KIIFB scheme. Of this, ₹118 crore has been utilised for procuring advanced research instruments. These instruments, along with other sophisticated facilities across various departments, have been integrated into a unified system known as the CUSAT Analytical Instruments Facility (CAIF).

The CIF portal provides a digital platform for faculty, researchers, and the public to access, book, and make payments for the use of research instruments. It also facilitates sample submission, testing, and usage tracking. A total of 206 advanced instruments are available through the facility, including Field Emission Scanning Electron Microscope (FESEM), X-Ray Diffractometer (XRD), Confocal Laser Scanning Microscope, Liquid Chromatography High-Resolution Mass Spectrometry (LCHRMS), DNA Sanger Sequencing System, Atomic Force Microscope (AFM), Raman Spectroscopy, Surface Area Analyzer, and ICP-MS-IC.

Sphere Verse Lab Inaugurated at CUSAT

On October 28, 2025, the Centre for Science in Society (C-SiS) at CUSAT developed and launched SphereVerse, a new scientific innovation aimed at enhancing experiential science learning. The facility also included a Virtual Lab that enabled visitors to explore scientific concepts through immersive virtual reality experiences.

The programme, held at the C-SiS campus, was inaugurated by Minister for Industries, Law and Coir P. Rajeeve. Vice Chancellor Dr. M. Junaid Bushiri presided over the function. Dr. P. Shaiju, Director, C-SiS; C. M. Sasidharan, Senior Vice President and Zonal Head, Federal Bank; Binu Thomas; Dr. K. N. Madhusoodanan; and Dr. M. K. Jayaraj also addressed the gathering.

Beginning with geography and astronomy, SphereVerse visually projected concepts such as latitude and longitude, complex weather patterns, atmospheric structures, and environmental

changes of the Earth on a spherical display. The facility offered an engaging visual medium that fostered curiosity and deeper understanding of scientific phenomena.

Comparable to the globally acclaimed Science on a Sphere (SoS) technology developed by the U.S. National Oceanic and Atmospheric Administration (NOAA), SphereVerse brought world-class scientific visualisation to India. While SoS installations are used in leading science centres and museums worldwide to display climate data and planetary movements, CUSAT successfully recreated a global-standard science exhibition facility to promote scientific awareness among students and the general public.

The SphereVerse facility was developed with financial support from Federal Bank under its CSR initiative and with technical collaboration from the Curiefy Science Center. The lab added a significant milestone to CUSAT's outreach in science education and was made accessible to children participating in C-SiS science interaction programmes and vacation camps.





MINISTER FOR INDUSTRIES, COIR AND LAW P. RAJEEVE AT THE VIRTUAL REALITY LAB.

India's First M.Tech Programme in Synthetic Biology and Biomanufacturing Launched

CUSAT, in partnership with the CVJ Centre for Synthetic Biology and Biomanufacturing, launched India's first-ever M.Tech programme in Synthetic Biology and Biomanufacturing in August 2025, marking a significant milestone in advanced biotechnology education in the country. The two-year postgraduate programme was designed to equip students with the expertise required to engineer biological systems and scale biomanufacturing processes in line with the rapidly expanding global bioeconomy.

Vice Chancellor Dr. M. Junaid Bushiri highlighted the academic significance of the initiative, noting that the programme bridged engineering and biology in a manner not previously attempted in India. Through collaboration with the CVJ Centre, the programme aimed to provide students with world-class training, research exposure, and diverse career pathways in emerging biotechnology domains.

The curriculum integrates genetic and metabolic engineering, computational biology, and bioprocess design, complemented by hands-on training in state-of-the-art laboratories.

Students were expected to undertake research projects and industry internships with leading Indian companies as well as international partner laboratories, ensuring strong exposure to real-world applications. Prof. Pawan K. Dhar, Executive Director of the CVJ Centre, observed that synthetic biology was transforming sectors such as food, medicine, fuels, and advanced materials, and that the programme would establish Kochi as a hub of excellence contributing to national and global bioeconomy initiatives.

The launch event featured special video messages from Mr. Aju Jacob, Managing Director of Synthite Industries, and international experts, including Prof. Marjan de Mey of Ghent University, Belgium; Prof. Radhakrishnan Mahadevan of the University of Toronto; and Prof. Keith Tyo of Northwestern University, USA.

The programme launch was attended by Registrar Dr. Arun A. U.; Mr. Vishal Menon, Chief Digital Officer, Synthite; Dr. K. N. Madhusudhanan, former Vice Chancellor of CUSAT; Prof. Sreejith P. S., Syndicate Member and former Dean, Faculty of Technology; Prof. I. S. Bright Singh, Professor Emeritus, NCAAH; Prof. Valsamma Joseph, Director, NCAAH; Prof. Jayachandran K. of the University of British Columbia; and Prof. Jayaprakash K., Vice President, Alnylam Pharmaceuticals, USA.



Nobel Laureate Dr. Joachim Frank Delivers Eminent Scholar Lecture at CUSAT

As part of the Eminent Scholar Lecture series at CUSAT, Nobel Laureate in Chemistry Prof. Dr. Joachim Frank, Professor at Columbia University Irving Medical Center, delivered a lecture at the CUSAT Seminar Complex.



NOBEL LAUREATE DR. JOACHIM FRANK AND RENOWNED CELL BIOLOGIST PROF. DR. BANU P. JENA DELIVERING EMINENT SCHOLAR LECTURE

In his address, Prof. Frank explained the significance of studying single molecules to understand complex biological processes and traced major advancements in molecular electron microscopy. He highlighted how electron microscopy evolved into a powerful tool for visualising biological structures at the molecular level, enabling deeper insights into cellular mechanisms. Reflecting on his scientific journey as a biophysicist, he outlined key milestones that led to the development of cryo-electron microscopy as a transformative technique in structural biology.

Renowned cell biologist and George E. Palade University Professor at Wayne State University, Prof. Dr. Banu P. Jena, also delivered a lecture titled "The Porosome Secretory Machinery: From Discovery to Therapy." He elaborated on how the discovery and molecular characterisation of the porosome revolutionised the understanding of cell secretion at the nanoscale and opened new avenues in biomedical research, including implications for diseases linked to secretory dysfunction.

The programme was held under the leadership of Vice-Chancellor Prof. Dr. M. Junaid Bushiri and was attended by senior academicians, researchers and members of the scientific community. Those present included Syndicate Member Dr. Santosh Kumar G., Registrar Dr. Arun A. U., Director of the Research and Development Cell Dr. Honey John, Controller of Examinations Dr. Manoj N., and Finance Officer CMA Girish Kumar P. G.

Prof. Joachim Frank is a biophysicist renowned for pioneering single-particle cryo-electron microscopy, enabling high-resolution structural determination of biological molecules. Trained in physics in Germany, he developed foundational 3D reconstruction methods and advanced ribosome research at the Wadsworth Center and Columbia University. His transformative work earned him the 2017 Nobel Prize in Chemistry shared with Jacques Dubochet and Richard Henderson.

Prof. Bhanu P. Jena earned his Ph.D. in Endocrinology from Iowa State University and received the Research Excellence Award. He served as Professor and Founder-Director of the Institute of NanoBioScience at Wayne State University School of Medicine and was named George E. Palade University Professor and Distinguished Professor in 2004. His pioneering research led to the discovery of the porosome, the universal secretory portal in cells.





NOBEL LAUREATE DR. JOACHIM FRANK AND RENOWNED CELL BIOLOGIST PROF. DR. BANU P. JENA WITH VICE CHANCELLOR DR. M JUNAID BUSHIRI WITH OTHER DIGNITARIES

BIS Corner Inaugurated at CUSAT

On September 25, 2025 a Bureau of Indian Standards (BIS) Corner was inaugurated at the University Library, marking a significant step towards strengthening standards awareness and accessibility on campus. The facility was formally inaugurated by Vice Chancellor Dr. M. Junaid Bushiri in the presence of BIS Deputy Director General Shri Praveen Khanna.

As part of the programme, seven BIS Student Chapters were also launched at the Department of Physics Auditorium. The BIS Corner, also referred to as the Standards Arena, is designed to provide students, researchers, and faculty members with seamless access to BIS standards, publications, and other related knowledge resources, thereby fostering a culture of quality and standardisation in academic pursuits.

The event was attended by Registrar Dr. Arun A. U., BIS Nodal Officer Dr. Surya Kalyani, CUSAT BIS Nodal Officer Dr. Aldrin Antony, and KOBO Head Shri Narender Reddy Beesu, among others. At present, BIS Corners have been established only at the National Institute of Technology, Calicut, and CUSAT, underscoring the university's leading role in promoting standards education in the region.





VICE CHANCELLOR DR. M. JUNAID BUSHIRI INAUGURATING THE BIS CORNER IN THE PRESENCE OF BIS DEPUTY DIRECTOR GENERAL SHRI PRAVEEN KHANNA

Dr. Priyesh C.A. Appointed as UGC Nominee to the Syndicate of CUSAT

The University Grants Commission (UGC) appointed Dr. Priyesh C.A., Professor and Head of the PG and Research Department of Economics, Government College, Attingal, Thiruvananthapuram, as the UGC nominee to the Syndicate of CUSAT.



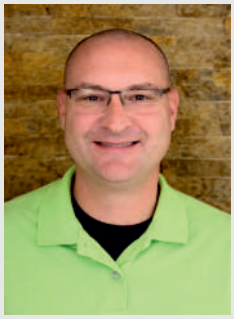
DR. PRIYESH C.A

Prof. Priyesh, a native of Nadakkal, Kalluvathukkal in Kollam district, is currently a member of the Senate of CUSAT.

CUSAT Appoints Dr. Royce R. Horak as English Language Fellow

In August 2025, CUSAT appointed Dr. Royce R. Horak as the English Language Fellow under the English Language Fellow Programme of the U.S. Government, sanctioned by Vice Chancellor Dr. M. Junaid Bushiri.

In this role, Royce R. Horak will focus on strengthening the communication and research writing skills of students in STEAM disciplines, preparing them as future leaders in U.S.–India strategic technology cooperation. His responsibilities include teaching Business English to MBA students, developing activity-based English modules in collaboration with the Centre for Science in Society (C-SiS), and conducting workshops at the American Corner, CUSAT to promote English proficiency and professional development.



DR. ROYCE R. HORAK

Dr. Horak holds a Ph.D. in Business Administration (Strategic Management) from Mississippi State University and an MBA from Stetson University.

With extensive global experience as an ESL and Business English Instructor, Mentor, and Counselor, he has taught in countries including USA, Switzerland, Morocco, Ecuador, and more. CELTA and DELTA certified, he has successfully delivered courses in Business English, academic writing, and communication skills across academic and corporate environments, supporting students and professionals in achieving excellence.

Six CUSAT Scientists Feature in Stanford University's Global Top 2% List



DR. C.P. REGHUNADHAN NAIR, DR. SREEJITH P S, DR. DEEPU GOPAKUMAR, DR. M. CHANDRASEKARAN, DR. M.K. JAYARAJ, DR. PRASHANTH RAGHAVAN

Six scientists from CUSAT were included in this year's Stanford University ranking of the top 2% scientists in the world. The distinguished faculty and alumni are Dr. Sreejith P.S., Syndicate Member and Dean of Technology; Dr. Prashanth Raghavan, Head of the Department of Polymer Science and Rubber Technology; Dr. M.K. Jayaraj, former Vice Chancellor of Calicut University; Dr. C.P. Reghunadhan Nair, Emeritus Professor, Department of Polymer Science and Rubber Technology; Dr. M. Chandrasekaran, Emeritus Professor, Department of Biotechnology; and Dr. Deepu Gopakumar, former Nava Kerala Postdoctoral Fellow, Department of Polymer Science and Rubber Technology.

Dr. Sreejith P.S. has consistently appeared in global rankings since 2021. Former Principal of the School of Engineering and the Cochin University College of Engineering, Kuttanad (CUEK), he also held leadership positions at Rajagiri School of Engineering & Technology and the Federal Institute of Science & Technology. Holding a Ph.D. in Manufacturing from IIT Madras and a Postdoctoral Fellowship in Precision Engineering and Nanotechnology from Nanyang Technological University, Singapore, he has published 51 international journal papers, 52 conference papers, and over ten articles in national newspapers.

Dr. Prashanth Raghavan, the youngest Indian scientist on the 2024 career-long ranking list, has been consistently recognised globally since 2019. After completing his doctorate at Gyeongsang National University, South Korea, he worked at Nanyang Technological University, Singapore, and Rice University, USA. His research on electrochemical energy storage, triboelectric nanogenerators, and nanoengineering, particularly on safe electrolytes for lithium-ion batteries, has been internationally acclaimed. He has published over 200 scientific papers and presented more than 100 research works at international conferences.

Dr. C.P. Reghunadhan Nair, former Deputy Director at ISRO and Vikram Sarabhai Space Centre, holds a Ph.D. in Macromolecular Materials from Louis Pasteur University, France. Specialising in space materials science, he holds over 30 patents, has authored more than 220 research articles, 12 books, and 20 book chapters. His contributions in chemistry, polymer chemistry, propellants, and materials science have been recognised both nationally and internationally.

Dr.Deepu Gopakumar, known for his work on polymer nanocomposites and water purification technologies, earned his Ph.D. from the University of South Brittany, France. He held postdoctoral fellowships at University Sains Malaysia, IMT Mines Albi (France), and Université du Québec à Rimouski (Canada). His research includes polymer membranes for water purification, nanocomposites for EMI shielding, and polymer scaffolds for tissue engineering. He was awarded the Kerala Government's Nava Kerala Postdoctoral Fellowship and has collaborated with universities across India, France, Italy, Brazil, Malaysia, and Canada.

Dr. M. Chandrasekaran, internationally recognised in marine microbiology and biotechnology, was educated at Madras, Annamalai, and Cochin Universities and completed postdoctoral research at Hiroshima University, Japan. As founding head of the Department of Biotechnology at CUSAT, he served as a professor at King Saud University, Saudi Arabia. His work on industrial enzymes and bioactive molecules from marine microorganisms has resulted in over 190 publications and two books, earning awards including the UGC Career Award, INSA Visiting Fellowship, and Dr. A.P.J. Abdul Kalam Lifetime Achievement Award.

Dr. M.K. Jayaraj, former Vice Chancellor of the University of Calicut, is a globally recognized scientist in thin films, nanomaterials, and flexible electronics. He served as Professor and Head of the Department of Physics at CUSAT, Dean of the Faculty of Environmental Studies, Director of Strategic Planning, Syndicate Member, and founding Director of the Centre of Excellence in Advanced Materials (2010–2020). He worked as a visiting scientist at Tokyo Institute of Technology, Japan, Oregon State University, USA, and leading institutions in France and Italy, and has received honors including the UGC Mid-Career Award, MRSI Medal, and Dr. S. Vasudev Award.

Dr. D. Mavoothu Appointed Dean, University of Kerala

Dr. D. Mavoothu, Professor at the School of Management Studies, CUSAT has been appointed Dean of the Department of Management Studies, University of Kerala. A native of Tirunelveli, Tamil Nadu, Dr. Mavoothu has over 32 years of teaching experience.



DR. D MAVOOTHU

He is a member of the CUSAT Syndicate and has previously served as Director of the School of Management Studies. He is also a Court Member of the Central University of Kerala. In addition, Dr. D. Mavoothu serves as Vice President of the Ernakulam District unit of Bharatiya Vichara Kendram.

Final-Year Student Awarded Prestigious Charpak Scholarship

Mariya Benny, final-year student of the Five-Year Integrated M.Sc. in Computer Science (AI & Data Science) has been awarded the distinguished Charpak Scholarship by the French Embassy in India. Through the existing CUSAT–ENSSAT (University of Rennes) Memorandum of Understanding, Mariya will pursue a fully-funded semester at ENSSAT from September 2025 to February 2026. The scholarship, valued at ₹5 lakhs, also provides a monthly stipend of €860, supporting her academic and living expenses in France. During her semester abroad, she will engage in advanced coursework and gain valuable international research exposure at one of France's leading institutions in science and technology.



MARIYA BENNY

Department of Electronics Shortlisted for 5G Innovation Hackathon 2025 – Pragati Phase

Two innovative projects from the Department of Electronics were shortlisted for the prestigious Pragati Phase (Prototype Development) of the 5G Innovation Hackathon 2025, organised by the Department of Telecommunications (DoT), Government of India. The department's projects, NeuroCareNet and IntelliResQ, were selected among 51 teams chosen from thousands of entries submitted nationwide.

NeuroCareNet was developed as a federated AI-based platform operating over 5G networks for the early detection of neurological disorders. The system enabled local processing of brain scans and voice data within hospital servers, ensuring strict data privacy. Through federated learning, encrypted model updates from different hospitals contributed to a unified central model, creating a collaborative, real-time diagnostic ecosystem aligned with national health regulations.

IntelliResQ functioned as an intelligent urban safety platform capable of responding to both routine and emergency situations—from regulating traffic during peak hours to handling floods, accidents, or chemical leaks. The system integrated smart AI-powered traffic nodes, disaster alert mechanisms, audio detection units, and a 5G-enabled MEC backend to deliver real-time analytics and rapid decision-making.

Both teams received a prototype development grant of ₹1 lakh, access to advanced 5G testbed laboratories, and mentorship from leading experts from industry and academia.

The 5G Innovation Hackathon 2025, held between March and April 2025, was a prestigious national initiative aimed at fostering indigenous 5G-enabled innovations by students, startups, and research groups, supported by 5G laboratories established across 100 institutes in India. Successful projects were set to receive cash prizes ranging from ₹50,000 to ₹5 lakh, along with an opportunity to be showcased at the Indian Mobile Congress 2025.

Professor Receives ASEM-DUO Belgium Fellowship



DR. PUNNADATH PREETHAM E

Dr. Punnadath Preetham, Associate Professor in the Department of Marine Biology, Microbiology and Biochemistry and Director of the Centre of Excellence for Aquatic Vaccine Development at the School of Marine Sciences, CUSAT, was awarded the prestigious ASEM-DUO Fellowship 2025 by the Government of Belgium.

The fellowship, valued at €7,000 (approximately ₹6.3 lakh), supported an academic exchange programme with Prof. Alain Vanderplasschen of the University of Liège, Belgium. The collaborative initiative focused on advanced research in fish vaccine development and sustainable aquaculture practices.

The exchange programme was scheduled to be carried out between August 2025 and August 2026, strengthening international academic collaboration and reinforcing CUSAT's research engagement in the field of aquatic health and sustainability.

Students Selected for Academic Training Programme at Niigata University, Japan



DILNAS FATHIMA



SREERAJ A



ANAGHA K M

Three postgraduate students have been selected to participate in the prestigious On-site Lecture Series and Field Training Programme at Niigata University, Japan, scheduled from 9 to 20 July 2025.

The selected students are Anagha K. M., a third semester M.Sc. Marine Biology student from the Department of Marine Biology, Microbiology and Biochemistry; Dilnas Fathima, a third semester M.Sc. Marine Geophysics student from the Department of Marine Geology and Geophysics; and Sreeraj A., a third semester M.Sc. Marine Geology student from the Department of Marine Geology and Geophysics.

This specialised programme is part of the student exchange initiatives under the Memorandum of Understanding (MoU) between Niigata University, Japan, and the School of Marine Sciences, CUSAT. It offers participants valuable academic exposure, practical field training, and opportunities for international scientific engagement, further enriching the collaborative relationship between the two institutions.

Professors Invited as International Tutors at Shanghai Jiao Tong University

Dr. Mohamed Hatha, Director of the CUSAT–NCPOR Centre for Polar Sciences, and Dr. T. P. Sajeevan, Professor and Head of the Department of Marine Biology, Microbiology and Biochemistry were invited to serve as International Tutors for the prestigious Summer School organised by the International Centre for Deep Life Investigation (IC-DLI) at Shanghai Jiao Tong University, China.

The academic programme, held from 1st to 21st July 2025, brought together leading global experts and emerging researchers in the fields of deep biosphere studies and microbial life sciences. Their participation reflected the high calibre of expertise held by CUSAT faculty in marine microbiology and deep-sea biology.



DR. MOHAMED HATHA



DR. T. P. SAJEEVAN

Four CUSAT Alumni Represent India at International Marine Research Expedition in Bay of Bengal

Four alumni of the Department of Chemical Oceanography represented India in a global oceanographic research expedition in the Bay of Bengal. George Snijin, Project Assistant at CUSAT; Dr. Sudheesh V. S., Technical Officer at the Central University of Kerala; Akshaya Haridas, Researcher at the University of Massachusetts, US; and Ellen Reji, Researcher at the University of South Carolina, US, participated in the expedition conducted onboard the American research vessel R/V Thomas G. Thomson from 22 June to 9 August 2025. The strong scientific foundation and research training received at CUSAT played a pivotal role in enabling their advancement in the international scientific arena.



The expedition, led by Dr. Shaju S. S. of the Department of Chemical Oceanography in collaboration with ISRO, focused on satellite-enabled oceanographic studies. The research team included 30 scientists from 17 research institutions across eight countries. The voyage, which covered various Exclusive Economic Zones (EEZs), commenced from Phuket, Thailand, and circumnavigated global waters before returning to the starting point. Equipped with advanced scientific instruments, the vessel monitored oceanic biodiversity and investigated the long-term effects of oxygen minimum zones on marine biogeochemical cycles.

Key objectives of the expedition included studying variations in carbon, nitrogen, and sulphur cycles, examining the impact of changing oxygen levels on microbial communities, particularly processes like microbial denitrification and nitrification, and understanding air-water interactions, trace gas formation, monsoon behavior, and climate change. This landmark mission underscored the global relevance of CUSAT-trained researchers in cutting-edge marine science.

Best Paper Award for Marine Sciences Researcher

Dr. Sreelekshmi S, RUSA–PDF scholar from the Department of Marine Biology, Microbiology and Biochemistry, received the Best Paper Award at an international conference organised by The Open University of Sri Lanka in July. 2025.



DR. SREELEKSHMI S

The recognition was conferred at the 3rd International Conference on Mangroves for Sustainability (ICMS), held under the theme "Mangroves for Sustainability." The award acknowledged the quality and relevance of her research contribution, highlighting its significance in advancing knowledge and sustainable practices related to mangrove ecosystems.

Researchers Selected for International Summer School in China

Ms. Farsana and Ms. Lekshmi B. J., research scholars from the Department of Marine Biology, Microbiology and Biochemistry, and Mr. Rojin Joseph, research scholar at the National Centre for Aquatic Animal Health (NCAAH), were chosen for the Summer School organised by the International Centre for Deep Life Investigation (IC-DLI) at Shanghai Jiao Tong University, China.



FARSANA A



LEKSHMI B J



ROJIN JOSEPH

ACARR Researcher Wins International Best Paper Award in Sydney



RONA MARIA SUNIL RECEIVING THE BEST PAPER AWARD IN SYDNEY

Rona Maria Sunil, INSPIRE Research Fellow at the Advanced Centre for Atmospheric Radar Research (ACARR) won the Best Student Paper Award, along with a cash prize, at the flagship conference of the International Union of Radio Science (URSI), held in Sydney, Australia, from 17 to 22 August 2025.

She presented her research on the development of a novel dynamical index to track and predict the onset of the Indian summer monsoon using radar remote sensing. The monsoon onset is a critical climatic event influencing regional weather, agriculture, water resources, and food security. Traditional detection methods often struggle to capture the complex atmospheric transitions preceding the onset. Under the guidance of Dr. M. G. Manoj, Scientist-D, and with the support of Dr. Kavya Johny at ACARR, CUSAT, Rona's innovative approach employed machine learning to predict the monsoon onset 3–4 weeks in advance with an accuracy of ±3 days, closely matching official dates announced by the India Meteorological Department (IMD). This validation highlights both the scientific rigor and practical significance of her work.

Rona Maria Sunil hails from Kalayil House, Thenhipalam, Malappuram. She is the daughter of Sunil K. Joseph and Judy Zhacharias and the wife of Abins Michael.

Professor Appointed Dean at Mahatma Gandhi University

Dr. Pramod Gopinath, former Director of the International School of Photonics has been nominated as the Dean of Engineering and Technology and Syndicate Memeber at Mahatma Gandhi University. The nomination was made by Rajendra Vishwanath Arlekar, Hon'ble Governor of Kerala.



DR. PRAMOD GOPINATH

Dr. Manu Melwin Joy Participates in International Digital Innovation Summit



DR. MANU MELWIN JOY

Dr. Manu Melwin Joy, Assistant Professor at the School of Management Studies delivered an invited talk on the theme "AI and Education: Shaping a Future Where Truth Matters" at the Digital Innovation Summit – Empowering Truth in the Age of AI, organised by Limkokwing University of Creative Technology, Lesotho, South Africa, on 29 August 2025.

Drawing on his expertise in gamification, employee engagement, and learning innovation, Dr. Joy highlighted how Artificial Intelligence had been transforming classrooms, curricula, and career paths, while emphasizing the importance of ensuring that truth and integrity remained central to education. His talk also explored the opportunities AI had created for personalised learning, adaptive assessments, and global access to knowledge.

The summit brought together educators and industry leaders from across the globe and aligned with Lesotho's National Digital Transformation Strategy, which identifies digital literacy, economic inclusion, and innovation as key drivers of national development. The strategy faced challenges including limited digital skills, underutilized technology, and misinformation. The event aimed to bridge these gaps by equipping the youth — who constituted the majority of Lesotho's population — with AI-driven tools and actionable skills to thrive in technology-driven industries.

PhD Scholar to Undertake Research Visit to W42 Industrial Biotechnology, Germany

K. Nandhakumar, PhD scholar from the Department of Marine Biology, Microbiology and Biochemistry, will undertake a short-term research visit to W42 Industrial Biotechnology, Dortmund, Germany, from January to March 2026.

The visit forms part of an international collaborative research project led by Dr. Preetham, Associate Professor, and focuses on the development and validation of a fish vaccine. During the programme, the scholar will be involved in advanced sample analysis and translational validation in an industrial research environment.



Dr. K. NANDHAKUMAR

W42 Industrial Biotechnology will fully support the visit by meeting all associated expenses, including accommodation, with the total support estimated at approximately ₹20 lakh. The exchange is expected to strengthen international research collaboration and open avenues for future academic and industry partnerships between India and Germany.

Professor Receives Prestigious IGU Award

Dr. Sunil P. S., Head of the Department of Marine Geology and Geophysics, has been awarded the Anni Talwani Memorial Prize 2025 by the Indian Geophysical Union (IGU). This marks the first time a Malayali scientist has received the award, which has been conferred annually since 2013. The recognition honours Dr. Sunil's more than 25 years of significant contributions to Earth System Science, with special emphasis on his work supporting India's scientific initiatives in the Polar Regions. Before joining the university in 2018, he served as a scientist at the Indian Institute of Geomagnetism, Mumbai, for 18 years. Dr. Sunil's distinguished research career spans work across all continents, including multiple expeditions to the Arctic and Antarctic, reflecting his sustained engagement with global geophysical research. The award was presented at the 62nd Annual Conference of the Indian Geophysical Union, to be held next month at the Indian National Centre for Ocean Information Services (INCOIS), Hyderabad.



DR. SUNIL P.S RECEIVING IGU AWARD

Professor Selected to ACU Oceans Expert Group Supporting Global Mangrove Ecosystem Initiative



DR. S. BIJOY NANDAN

Dr. S. Bijoy Nandan, Dean of the Faculty of Marine Sciences, has been selected as a member of the Oceans Expert Group launched by the Association of Commonwealth Universities (ACU). The Expert Group will support a technical project on Mangrove Ecosystems, developed in partnership with the Mangrove Ecosystems and Livelihoods Action Group (MELAG), jointly led by Sri Lanka and Trinidad and Tobago.

The initiative aims to promote sustainable ocean management, conservation, and policy innovation across the Commonwealth. The Oceans Expert Group has been constituted to foster international collaboration, facilitate knowledge exchange, and strengthen the interface between academic research and policymaking.

As one of the few academic leaders selected from ACU member universities worldwide, Dr. Bijoy will contribute his expertise in wetland and mangrove ecosystems, community ecology, carbon dynamics, and climate science. His participation is expected to play a key role in shaping global marine research frameworks and advancing evidence-based policies for ecosystem conservation and climate resilience.

Faculty Invited to Participate in International GSES Workshop in China

Dr. Mohammed Hatha, Director of the CUSAT-NCPOR Centre for Polar Sciences in the Department of Marine Biology, Dr. Vishnu K. Venugopal, DST–INSPIRE Faculty, and Dr. Jabir Tajudeen, Project Scientist at the National Centre for Polar and Ocean Research (NCPOR), Goa, was invited to participate in the Global Sub-Seafloor Ecosystem and Sustainability (GSES) International Workshop to be held in Hangzhou, China.



DR. JABIR TAJUDEEN



DR. MOHAMED HATHA

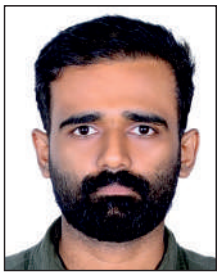


DR. VISHNU K. VENUGOPAL

The workshop was organised under the leadership of Shanghai Jiao Tong University (SJTU) on behalf of the International Center for Deep Life Investigation (IC-DLI). It brought together leading international researchers to deliberate on deep-sea ecosystems, marine sustainability, and recent advancements in research techniques related to sub-seafloor and deep-life investigations.

Research Scholar Invited to Present at International Conference in Italy

Rakhil Dev, Research Scholar in the Department of Marine Geology and Geophysics has been invited to present his research at The Micropalaeontological Society (TMS) Annual Conference 2025. The conference will be held from 5 to 8 November 2025 at the University of Pisa, Italy.



RAKHIL DEV

His research work, titled "Benthic Foraminiferal Response to Seasonal Geochemical Shifts in Multiple Ecosystems of a Tropical Marine Biosphere in India," has been accepted for presentation in the poster category.

In recognition of the quality and relevance of his research, Rakhil Dev has also been selected for the TMS AGM 2025 Travel Grant Award, which carries a financial support of £250.

Radar Researchers Win Prestigious IMS Best Paper Award

Angel Anita Christy, Radar Researcher working under the guidance of Dr. M. G. Manoj, Scientist, Advanced Centre for Atmospheric Radar Research, CUSAT, has won the Indian Meteorological Society Best Paper Award on "Atmospheric Observations and Technologies" (formerly the J. Das Gupta Award) for the biennium 2023–2024.

The award-winning paper, jointly authored by Angel Anita Christy and Dr. M. G. Manoj, presents a novel radar-based remote sensing approach for estimating the Atmospheric Boundary Layer Height (ABLH), a critical parameter governing the exchange of energy and mass between the Earth's surface and the atmosphere. Accurate estimation of ABLH is essential for understanding convection and cloud formation, severe weather events, lightning activity, air pollution dispersion, and fog formation.

The study employs observations from a 205 MHz VHF radar and represents a significant advancement in tropical atmospheric boundary layer research and radar meteorology. The award will be formally presented at the



ANGEL ANITA CHRISTY



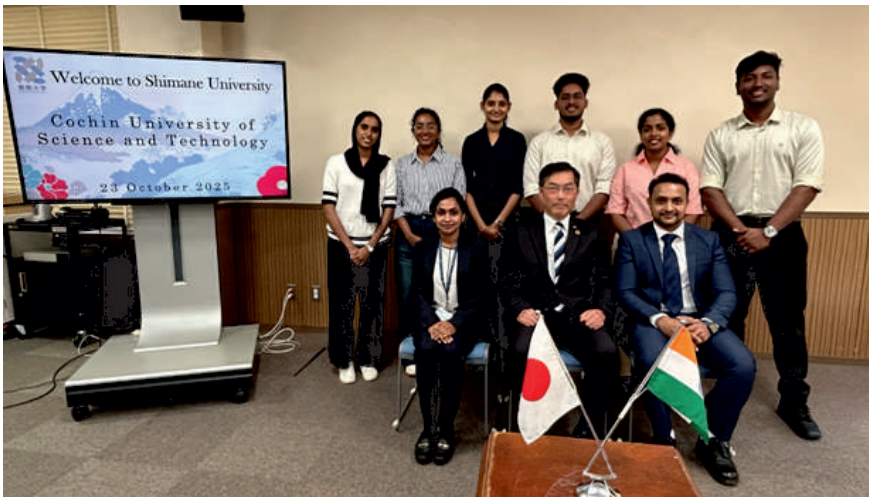
DR. M. G. MANOJ

INTROMET International Conference, to be held in Pune.

Angel Anita Christy is the daughter of Christopher and Vimala, residing at Austin Villa, Tagore Junction, Kollam. She has two siblings, Benita and Austin.

CUSAT-Shimane Tie-up Advances Indo-Japan Scientific Exchange

Dr. Ratheesh Kumar R.T., Assistant Professor, Department of Marine Geology and Geophysics, CUSAT, and Dr. Shilpa A.S., Assistant Professor, Department of Earth Science, Shimane University, Japan, jointly secured the Sakura Science Exchange Grant from the Japan Science and Technology Agency (JST), marking a significant milestone in Indo-Japan academic collaboration in November, 2025.



The initiative strengthened international academic and research exchange for students in geology and ocean sciences, with a particular focus on interdisciplinary studies of volcanic structures and their evolutionary history associated with the Sea of Japan.

A six-member team of second-year M.Sc. Marine Geology and Geophysics students from CUSAT, led by Dr. Ratheesh Kumar, visited Shimane University under the programme. The participating students—Anakha S., Veena G. Prakash, Flojen Basil (Marine Geology), and Safna P., Santra Varghese, and Alan Augustine (Marine Geophysics)—actively engaged in academic workshops, laboratory demonstrations, geological field studies, and interactions with Japanese researchers.

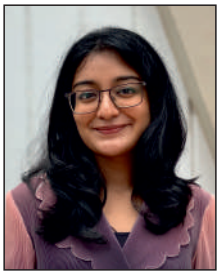
During an interaction with Shimane University President Prof. Hiroshi Ohtani, both institutions explored avenues for strengthening academic cooperation, including the possibility of launching a joint Ph.D. programme.

The academic programme included field-based examination of volcanic rocks such as rhyolite, dacite, andesite, and basalt from island regions including Katsurajima and Dekonjima along the Sea of Japan coast, offering insights into the tectono-magmatic evolution of the region.

As part of the academic sessions, Dr. Ratheesh Kumar delivered a lecture titled Crossing Scales in Geoscience: From Planetary Interiors to Archaeological Heritage, sharing his multidisciplinary research experiences. Students also presented their research ideas to the academic and research community at Shimane University. Anakha S. received the award for Best Activity/Performer, while Flojen Basil was recognised with the Best Research Presentation award.

The programme also featured a cultural exchange component, during which the team visited major Japanese heritage sites, including Matsue Castle and prominent Shinto landmarks such as the Bentenjima Cliff Shrine at Inasa-no-Hama Beach and the Izumo Grand Shrine.

CUSAT Alumna Secures Prestigious MSCA Doctoral Fellowship



LORAIEN RAJU KALATHIL

Loraien Raju Kalathil, an MSc Photonics alumna of CUSAT, was awarded the prestigious Marie Skłodowska–Curie (MSCA) double doctoral fellowship under the European Union's Horizon Europe programme.

The four-year joint doctoral programme, titled FunctiGlass, was designed as a collaborative initiative between Université Côte d'Azur – CNRS, France, and Tampere University, Finland. Under the fellowship, she was to receive a monthly stipend of approximately 2,700 euros, with the total funding amounting to around ₹1.3 crore (129,600 euros).

FunctiGlass is a major international research initiative focused on advancing studies in functional glass and is fully supported through Horizon Europe–MSCA funding. The doctoral research was to be jointly supervised by Dr. Matthieu Bellec, researcher at CNRS, France, and Dr. Laeticia Petit, Professor at Tampere University, Finland.

Hailing from North Paravur in Ernakulam district, Loraien is the daughter of Raju and Soumya.

CUSAT Researcher Awarded ANRF National Post Doctoral Fellowship

Dr. Harsha K, Post Doctoral Fellow at the School of Environmental Studies, has been awarded the prestigious National Post Doctoral Fellowship by the Anusandhan National Research Foundation (ANRF).

The fellowship, which carries a financial assistance of Rupees 29 lakh, is awarded for a duration of 24 months. It has been granted in support of Dr. Harsha's research project focused on developing an innovative bioremediation technology for plastic waste management using plastic-eating wax worms.

The research is being carried out under the guidance of Dr. Vrinda S., Assistant Professor, Department of Environmental Studies, CUSAT. The project aims to explore sustainable and biologically driven solutions to address the growing challenge of plastic pollution, contributing to environmental protection and waste management strategies.

The award of the ANRF National Post Doctoral Fellowship highlights the quality and societal relevance of research being undertaken at CUSAT and reinforces the university's commitment to advancing environmental science and sustainable technologies.



DR. HARSHA K

CUSAT Researchers Secure Patent for Advanced Digital Evidence Fingerprinting System

Researchers from CUSAT have been granted a patent for an innovative invention titled "System and Method for Generating Digital Fingerprint of a Digital Evidence." The patented system represents a significant advancement in the field of digital forensics, aiming to enhance the reliability, integrity, and authenticity of digital evidence used in criminal investigations.

The patent has been awarded to Vijith T K Thekkekoodathil, Senior Research Fellow (UGC-SRF), Cyber Intelligence Research Laboratory, Department of Computer Applications, CUSAT; Dr. M B Santosh Kumar, Professor and Head, Department of Information Technology, School of Engineering, CUSAT; Dr. K V Pramod, Emeritus Professor, Department of Computer Applications, CUSAT; and Sukrith B, Research Scholar, Cyber Intelligence Research Laboratory, Department of Computer Applications, CUSAT.

The patented system strengthens conventional digital evidence hashing techniques by integrating multiple layers of security. It generates a unique digital fingerprint through a combination of cryptographic hash values, hardware-based device identifiers, and geo-location data that records the precise location where the fingerprinting process is carried out. In addition, built-in write-block technology ensures that the original digital evidence remains completely unaltered during analysis.

Designed with practical deployment in mind, the system is user-friendly and can be operated by law enforcement personnel and field investigators directly at crime scenes without the need for advanced technical expertise. The invention is expected to contribute significantly to improving digital forensic standards, strengthening chain-of-custody documentation, and enhancing the evidentiary value of digital records presented before courts.

This achievement underscores CUSAT's growing contributions to cutting-edge research in cyber intelligence and digital forensics, with direct relevance to law enforcement and judicial processes.

The invention is expected to contribute significantly to improving digital forensic standards strengthening chain-of-custody documentation



DR. K V PRAMOD



SUKRITH B



DR. M B SANTHOSH



VIJITH T K THEKKEKOODATHIL

CUSAT Students Selected for Erasmus + Mobility Programme to Europe


ARCHANA A NAIR


VYSHAK S


RIYA SAKEER A


ATHIRA R J


ANAMIKA SABU


AMAL JOHN S

Six postgraduate students from the School of Industrial Fisheries (SIF), CUSAT, have been selected for the prestigious Erasmus+ Student Mobility Programme to Europe, funded by the European Union. The selected students will undertake their semester mobility at the Faculty of Tourism and Rural Development (FTRR), Josip Juraj Strossmayer University of Osijek, Croatia.

The selection was formally communicated by FTRR following a structured application and interview process. The three-month mobility programme is scheduled to be held from 1 March 2026 to 31 May 2026.

During the mobility period, the students will pursue multidisciplinary academic courses along with a professional practice component. This integrated approach will provide them with valuable international academic exposure, combining classroom learning with practical experience in a global academic environment.

The selected final-year postgraduate students from the School of Industrial Fisheries include Archana A Nair, MSc Industrial Fisheries; Riya Sakeer A, MFSc Seafood Safety and Trade; and Athira R J, MSc Industrial Fisheries, all of whom have been awarded full Erasmus+ grants. Students selected under the partial grant category are Vysakh S, MFSc Seafood Safety and Trade, and Amal John S, MSc Industrial Fisheries. Anamika Sabu, MFSc Seafood Safety and Trade, has been selected under the zero grant category.

The Erasmus+ mobility programme promotes international academic collaboration, intercultural competence, and professional skill development, and aligns with CUSAT's ongoing efforts to strengthen global academic engagement and internationalisation initiatives.

CUSAT Professors Conferred CSIR Emeritus Scientist Status

Two professors of CUSAT have been conferred the prestigious Emeritus Scientist status by the Council of Scientific and Industrial Research (CSIR). Dr. P. G. Sankaran, Emeritus Professor, Department of Statistics, and Dr. S. Bijoy Nandan, Dean of the Faculty of Marine Sciences, are the recipients of the honour.

Dr. P. G. Sankaran has been awarded the CSIR Emeritus Scientist status in Statistics, while Dr. S. Bijoy Nandan has received the recognition in Marine Biology. They are the only two recipients from Kerala to receive this honour this year.


Dr. P G SANKARAN


Dr. S BIJOY NANDAN

The projects submitted by the awardees will also receive financial support from CSIR. Notably, only 20 scientists across the country have been selected for the CSIR Emeritus Scientist honour this year.

Dr. Asha Gopalakrishnan Elected to IISA Board


DR. ASHA GOPALAKRISHNAN

Dr. Asha Gopalakrishnan, Senior Professor and Head of the Department of Statistics, CUSAT, was elected as a Member of the Board of Trustees of the International Indian Statistical Association (IISA) for the term 2026–2028.

The election to the Board of Trustees of IISA, an international professional body of statisticians of Indian origin, marked a significant professional recognition of her academic contributions and leadership in the field of statistics.

CUSAT Bags Multiple Awards at ISPS Convention

The Department of Statistics received multiple awards and recognitions at the 45th Annual Convention of the Indian Society for Probability and Statistics (ISPS) held in December 2025 at the Department of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Andhra Pradesh.

Senior Professor Dr. S. M. Sunoj was conferred the Prof. K. Srinivasa Rao ISPS Best Researcher Award – 2025 in recognition of his significant contributions to statistical research. The award included a cash prize, citation, shawl, and memento.

Dr. Irshad M. R., Assistant Professor, received the Dr. C. R. Rao Gold Medal – 2025 along with a citation, in appreciation of his notable research achievements. Research Scholar Pavithra Hariharan was honoured with the ISPS Young Statistician Award – 2025 (Prof. J. Sethuraman Gold Medal) for her promising contributions to the field of statistics.


PAVITHRA HARIHARAN


KAINS MATHEW BINOY


DR. S M SUNOJ


DR. IRSHAD M R


DR. NAMITHA SURESH


DIYA SOMICHEN


MERLIN T BENNY

In the student category, Diya Somichan, Kains Mathew Benoy, and Merlyn T. Benny, IV Semester M.Sc. Statistics students, secured First Position in the ISPS M.Sc. Student Project Competition – 2025. Additionally, Research Scholar Dr. Namitha Suresh secured Second Position in the Prof. A. R. Kamath Best Doctoral Thesis Award – 2025.

CUSAT Secures ₹1.19-Crore Indo-Korean SPARC Research Project

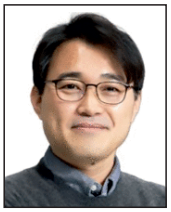
CUSAT secured a major international research project under the Scheme for Promotion of Academic and Research Collaboration (SPARC) of the Ministry of Education, Government of India in December, 2025. The Indo–Korean collaborative project, with a total outlay of Rupees 1.19 crore, focuses on developing an advanced technology platform that integrates marine-derived antimicrobial peptides with state-of-the-art photocatalytic nanomaterials to improve water purification and strengthen disease management in aquaculture systems.

The project is led on the Indian side by Dr. Swapna P. Antony, Assistant Professor in the Department of Marine Biology, Microbiology and Biochemistry, who serves as the Principal Investigator and coordinator of the Indian research team. Dr. T. P. Sajeevan from the same department is the Indian Co-Investigator.

The international research team is headed by Prof. Hyunwoong Park, Professor in the School of Energy Engineering and Director of the Industrial Technology Research Centre at Kyungpook National University (KNU), Daegu, South Korea. Prof. Park has been featured eight times since 2017 in Stanford University's World's Top 2% Scientists list. Prof. Hyoung-il Kim, Associate Professor at Yonsei University, Seoul, serves as the foreign Co-Investigator and has appeared twice in the same ranking since 2024.

The project is expected to contribute significantly to improving water quality, reducing disease incidence in aquaculture, and minimising dependence on conventional antibiotics. By combining expertise in advanced materials science and marine biotechnology, the Indo–Korean SPARC collaboration aims to deliver innovative and sustainable solutions for aquatic health management and environmental protection.


DR. SWAPNA P


PROF. HYUNWOONG PARK


DR. T.P. SAJEEVAN


PROF. HYOUNG-IL KIM

This achievement also reflects the broader vision of the Ministry of Education's SPARC scheme, which seeks to strengthen India's research ecosystem through high-quality international academic collaborations.

Alumna Awarded Fellowship Worth ₹ 1.1 Crore

Merline C. U., alumna of the Integrated M.Sc. Physics programme was awarded a fellowship worth ₹1.1 crore to pursue her Ph.D. at the University of Freiburg, Germany. A 2024 graduate, Merline received a monthly stipend of €3055.63 for three years, totaling nearly ₹1.1 crore. Her doctoral research focuses on "Cluster Size and Time-Resolved XUV Photoelectron Spectroscopy of Photocatalytic Water Splitting Systems." Merline, a native of Wayanad, is the daughter of Ulahannan C. T. and Reena K. K.



MERLINE C. U

Dr. Hatha Reappointed to NCPOR Research Advisory Committee

Dr. Mohammed Hatha, Director of the CUSAT-NCPOR Centre for Polar Sciences in the Department of Marine Biology, has been reappointed as a member of the Research Advisory Committee (RAC) at the National Centre for Polar and Ocean Research (NCPOR), Goa.



DR. MOHAMMED HATHA

Researcher's Project Receives MOES Grant

The Ministry of Earth Sciences (MoES), Government of India, sanctioned a research project led by scientists from CUSAT to study the influence of tropical waves on extreme rainfall events in India, with funding of ₹44 lakh.

Dr. Ajil Kottayil, Scientist at the Advanced Centre for Atmospheric Radar Research, served as the Principal Investigator, while Dr. K. Satheesan, Professor at the Department of Atmospheric Sciences, was the Co-Principal Investigator.

The three-year project aimed to investigate how extreme rainfall events over India are influenced by tropical wave activity.

The study sought to provide a deeper understanding of tropical wave dynamics, a relatively underexplored area, and their impact on extreme rainfall patterns across the country.



DR. AJIL KOTTAYIL



DR. K. SATHEESAN

CUSAT Alumnus Awarded Prestigious Doctoral Fellowship in Germany

Johns Aji, an MSc Physics alumnus of CUSAT, has been awarded a prestigious doctoral fellowship at Heidelberg University, Germany, to pursue advanced research under the supervision of Dr. Jana Zaumseil. His research will focus on the topic "N-Heteropolycycles as Functional Materials."

The doctoral project is funded by the German Research Foundation (DFG). Under the fellowship, Johns Aji will receive a monthly stipend of 3,101 Euros for a duration of three years. The total fellowship amount is approximately Rupees 1.1 crore (111,636 Euros).

The research will involve the fabrication and characterisation of organic photodiodes, investigation of systems responsive to linearly and circularly polarized light, detailed data analysis, scientific presentations, and the guidance of student research activities.

A 2024 MSc Physics graduate of CUSAT, Johns Aji previously worked as a Project Associate at IIT Bombay for one year. He hails from West Vengola, Ernakulam, and is the son of Aji John and Mini Jacob.



JOHNS AJI

Widespread Algal Bloom Hits Kerala Coast, CUSAT Researchers Report

The Department of Marine Biology, Microbiology and Biochemistry reported a significant "Red tide" phenomenon along the north and central Kerala coast beginning the first week of August 2025. The event was characterised by the reddish discoloration of surface waters, caused by massive blooms of the red variant of the dinoflagellate microalga Noctiluca scintillans.

The research team, operating under the ANRF-SRG Programme studying climatic influences on Harmful Algal Blooms (HABs) and led by Dr. Lathika Cicily Thomas, Assistant Professor in the department, confirmed the bloom through observations at Chavakkad Beach in Thrissur district and multiple beaches in Kozhikode. The bloom spread progressively southwards, influenced by prevailing surface currents, notably affecting the shorelines of Edakkazhiyur and Puthenkadapuram. Locally, the phenomenon is referred to as Pooneer, Polavellam, or Karavellamm, covering several kilometres of coastline.

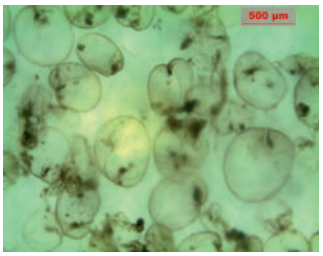
The reddish hue was most pronounced in shallow intertidal zones and accompanied by striking bioluminescence, producing blue-green flashes in the surf zone at night. Noctiluca scintillans occurs in two forms: a green variant with photosynthetic endosymbionts causing "Green tides," and a red heterotrophic form responsible for "Red tides," which feed primarily on diatoms. Kerala's coastal waters have historically experienced both variants, especially during the monsoon season.

CUSAT has been conducting long-term studies on Harmful Algal Blooms for over two decades, documenting their ecological impacts, including oxygen depletion and mortalities of fish and invertebrates. Research has explored the species' life cycle, feeding ecology, associations with jellyfish blooms, and effects on coastal food webs. Due to their large size and dense aggregations, N. scintillans can rapidly deplete oxygen from the water column during bloom events.

Experts warned that climate change, rising sea surface temperatures, and aquatic pollution may be increasing the frequency and persistence of such blooms along the Kerala coast. Although no fish or invertebrate mortalities have been reported in the current bloom, recurrent events could alter water quality and have significant ecological consequences. The Department continues to monitor the situation to assess its ongoing impact on coastal ecosystems.



RED TIDE



Noctiluca scintillans

Highly Potent Antifungal Copper Complex Developed by CUSAT and MGU Researchers Secures Indian Patent

A collaborative team of researchers from CUSAT and Mahatma Gandhi University (MGU) has developed a novel dinuclear Cu(II) coordination complex exhibiting exceptionally high antifungal activity, significantly surpassing the standard drug Amphotericin B.

The newly developed metal complex demonstrated 622-fold higher in vitro activity against Candida albicans and 76-fold higher activity against Aspergillus flavus, compared to Amphotericin B. Minimum Inhibitory Concentration (MIC) studies revealed remarkable values of 1.7 nM against Candida albicans and 13.8 nM against Aspergillus flavus, establishing its superior effectiveness. The compound also exhibited significant activity against Candida tropicalis.

Identified through extensive in vitro and in silico evaluations from a series of copper complexes, the compound has emerged as a promising lead candidate for antifungal therapy, with the potential to serve as a more effective alternative to currently available treatments.

The research, led by Dr. Manoj E. and Dr. K.K. Mohammed Hashim from the Department of Applied Chemistry, CUSAT, Kochi, together with Dr. E.K. Radhakrishnan and K. Sreekanth from the School of Biosciences, MGU, Kottayam, has resulted in the granting of an Indian Patent for the invention. Further studies are underway to advance the compound's development as a new antifungal drug.



DR. MANOJ E



DR. K.K. MOHAMMED HASHIM



DR. E.K. RADHAKRISHNAN



K. SREEKANTH

Indian Patent for Innovative Energy Harvesting Technology

CUSAT was granted an Indian Patent (IN 569569) for a pioneering development in energy harvesting technology in September, 2025. The patent covers a triboelectric nanogenerator (TENG) based on polydimethylsiloxane (PDMS), incorporating a graphene oxide–conducting polymer nanohybrid. The patent application was facilitated by the IPR Facilitation Cell at the Inter University Centre for IPR Studies (IUCIPRS), CUSAT.

The innovation resulted from groundbreaking research led by Dr. Honey John, Director of the Inter University Centre for Nanomaterials and Devices (IUCND) and Professor at the Department of Polymer Science and Rubber Technology (PS&RT). The research team included Dr. Divya Jose, Former PhD Scholar, PS&RT; Dr. Saji Joseph K. J., Associate Professor, International School of Photonics (ISP); Dr. Jelmy E. J., Post-Doctoral Fellow, IUCND; Dr. Vijoy K. V, Former PhD Scholar, ISP; and Dr. Manoj N., Department of Applied Chemistry.

The patented technology introduces a novel material composition combining conducting polymer, graphene oxide, and PDMS, enabling highly efficient energy harvesting from ambient mechanical sources such as vibrations, wind, and human motion. This advancement is particularly significant for powering nanoelectronic devices by converting otherwise wasted mechanical energy into usable electrical power.

Potential applications include self-powered sensors, wearable electronics, smart textiles, health monitoring devices, and motion-sensing systems, making it a promising solution for sustainable and energy-efficient innovations in the field of flexible electronics.

Study Highlights Need for AI Policy in Higher Education



DR. NIMITHA ABOOBACKER



DR. V R RANJITH



P. K. PADMAKUMAR



DR. ARCHANA S. N



DR. SHAJITHA C

A recent study published in Discover Education, a journal of the international publisher Springer Nature, highlighted the extensive use of Artificial Intelligence (AI) tools by university students and research scholars in Kerala and underscored the need for comprehensive policy formulation in the higher education sector. The findings were reported in October 2025.

The study, conducted among postgraduate and doctoral students of CUSAT and the universities of Kerala and Calicut, revealed that AI tools were widely used for learning support, paraphrasing, academic writing, literature searching, plagiarism detection, reviewing, research presentations, and programming. Tools such as ChatGPT, Grammarly, and QuillBot emerged as the most frequently used. However, due to limited institutional access, the majority of students depended on free versions of these applications.

A notable finding of the study was that AI tool usage among students in Kerala was largely gender-neutral. The researchers attributed this trend to the state's high female literacy rate, inclusive educational opportunities, and progressive socio-cultural environment.

While acknowledging the academic advantages of AI, the study also pointed out concerns related to credibility, ethical considerations, data security, privacy, and academic integrity, which discouraged some students from fully adopting these technologies.

The researchers strongly advocated the formulation of clear institutional and sector-wide policies to promote the responsible and effective use of AI in higher education. They recommended providing access to high-quality premium AI tools along with structured training programmes to ensure their judicious and ethical use.

Titled "AI-Assisted Learning and Research: An Exploratory Study among University Students and Scholars", the study was led by Dr. Archana S. N., Assistant Librarian, CUSAT, along with Mr. P. K. Padmakumar, Assistant Librarian, CUSAT; Dr. Nimitha Aboobacker, Assistant Professor, CUSAT; Dr. V. R. Ranjith, Assistant Librarian, University of Kerala; and Dr. Shajitha C., Assistant Professor, Kannur University.

CUSAT Secures Patent for Machine Learning-Based Rainfall Extraction Technique

CUSAT has been granted a patent for a novel machine learning-based technique developed to extract accurate rainfall information from atmospheric radar signals. The innovation represents a significant advancement in radar meteorology and atmospheric signal processing.

The patented method combines distribution-based signal processing algorithms with advanced machine learning approaches to enhance the performance of the 205 MHz Stratosphere–Troposphere radar. Atmospheric radar signals often contain mixed echoes from both clear air and raindrops, posing challenges in retrieving precise atmospheric parameters. To overcome this, the research team developed a Hybrid Adaptive Bi-Gaussian Fitting Algorithm capable of effectively separating rain echoes from clear-air echoes in the troposphere below five kilometres, across varying rainfall intensities.

In addition, the application of the Gaussian Mixture Model enables accurate classification of spectral components even under complex atmospheric conditions. The probabilistic framework of the model ensures reliable and automated identification of rain and air echoes, making the technique robust and efficient for operational use.

The patented research is the result of a collaborative effort by Dhanya R., Assistant Professor, ToCH Institute of Science and Technology and former Research Scholar, Department of Electronics, CUSAT; Anju Pradeep, Professor, School of Engineering, CUSAT; Dr. Abhilash S., Director, Radar Centre, CUSAT; and Abhiram Nirmal, Research Scholar, Radar Centre, CUSAT.


Dr. Anju Pradeep


Dr. Abhilash S


Abhiram Nirmal C S


Dhanya R

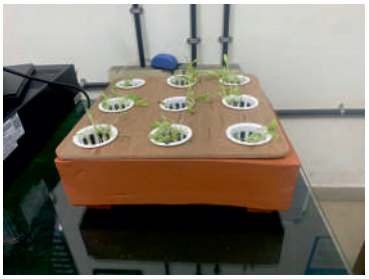
Compact Modular Hydroponic Tray System for Urban Agriculture

A compact, modular hydroponic tray system designed for efficient cultivation in space-constrained urban environments has been developed at Maker Village, KINFRA Hi-Tech Park, Kalamassery, in collaboration with CUSAT. The innovation is the result of joint work by Dr. Santosh Kumar, Head of the Department of Information Technology at CUSAT, and Mr. Pradeep Kumar P., CEO of X BOSON AI.

The system consists of self-contained trays, each capable of supporting up to nine plants. Every tray integrates its own nutrient reservoir, enabling continuous nutrient circulation without the need for external tanks or complex plumbing. This design significantly reduces water consumption, making the system well suited for homes, urban farms, and other small controlled environments.

A key feature of the device is its modular architecture, which allows users to begin with a single tray and scale up to multi-unit configurations based on requirement. The system is adaptable for home-based micro-farming, research applications, and smart city agriculture initiatives. By addressing challenges such as limited space, water conservation, and ease of use, the innovation offers a practical and accessible solution for soil-less cultivation.

The device, titled "Hydroponic Device for Improving Plant Growth," has been officially granted a patent by the Government of India, marking a significant milestone in the development of sustainable urban agriculture technologies emerging from CUSAT.


HYDROPONIC TRAY SYSTEM


PRADEEP KUMAR P


DR. SANTOSH KUMAR

Study Identifies Major Convective Weather Threats in Kerala

A recent scientific study has identified lightning, sudden strong winds, and intense short-duration rainfall as the three primary convective weather hazards affecting Kerala during the pre- and post-monsoon seasons. These hazards are associated with rapidly developing convective clouds and pose increasing multi-hazard risks, particularly during the pre-monsoon months when their frequency has shown a notable rise.

The study provides a detailed regional analysis of convective weather impacts across the state. Districts such as Kottayam, Ernakulam, Idukki, and Pathanamthitta were identified as having the highest lightning risk. Coastal regions were found to consistently experience the most intense rainfall, while the Western Ghats and adjoining foothill areas are frequently affected by thunderstorms and heavy showers. The research also notes that extremely heavy rainfall events are more common from Ernakulam northwards, whereas southern districts are more prone to combined hazards, increasing the likelihood of flash floods and landslides.

By examining how different regions are exposed to varying convective threats, the study offers valuable insights for strengthening disaster preparedness and mitigation strategies. It is the first comprehensive investigation to focus on combined hazards from convective clouds during Kerala's pre-monsoon season, with particular emphasis on the physical mechanisms through which deep convective clouds generate sudden strong winds.

The research utilised satellite observations, IMD rain-gauge data, and Automatic Weather Station (AWS) measurements to identify key hotspots across Kerala where lightning, strong winds, and heavy rainfall are most likely to occur. It also documents regional variations in cloud formation and intensity, contributing to a better understanding of convective processes over the state.

The study was conducted by Dr. Abhilash S, Director of the Advanced Centre for Atmospheric Radar Research (ACARR), CUSAT, along with researchers Krishnakumar E. K., Abhiram Nirmal C. S., and Prabath H. Kurup. The findings have been published in the international journal 'Geomatics, Natural Hazards and Risk'.



DR. ABHILASH S



KRISHNAKUMAR E K



ABHIRAM NIRMAL



PRABHATH H

Monsoon Experiment on Troposphere-Ionosphere Coupling (ME-TIC) Conducted at CUSAT

CUSAT successfully conducted the experimental campaign "Monsoon Experiment on Troposphere-Ionosphere Coupling using Multi-Instrument Observations (ME-TIC)" from 4 to 9 August 2025. The campaign was a joint initiative between SPL/VSSC/ISRO and ACARR/CUSAT, aimed at understanding the dynamics and chemistry of the tropical lower and upper atmosphere and their coupling during the Indian summer monsoon.

During the campaign, the CUSAT ST radar was operated in multiple modes to probe the atmosphere from the lower to upper regions. Daily at 2:30 pm, an ozonesonde/radiosonde was launched from ACARR to obtain temperature and ozone profiles from the surface up to 35 km. The first ozonesonde launch on 5 August was carried out by Dr. M. Junaid Bushiri, Vice-Chancellor, CUSAT.

A temporary ozonesonde laboratory was set up at ACARR for instrument preparation. In addition, observations were recorded from co-located instruments including CUSAT's automatic weather station, micro rain radar, disdrometer, ceilometer, and radiometer. The IMD Doppler Weather Radar, in regular operation, was extensively used to support the campaign's scientific objectives.

The study was further supplemented with space-borne satellite observations from INSAT-3DS, EOS-07, TIMED/SABER, Aura-MLS, and COSMIC-2, providing a comprehensive dataset for analysing troposphere-ionosphere coupling during the monsoon.

When the Gut Talks, the Brain Listens: Microbial Imbalance Linked to Memory Impairment

A collaborative Indo-German research study has identified a clear biological mechanism linking disturbances in gut bacteria to impaired learning and memory, providing strong evidence for the long-recognised connection between gut health and brain function. The study, published in the latest issue of BMC Biology, demonstrates how disruption of the gut microbiome can initiate systemic inflammation that ultimately affects neural circuits involved in memory formation.

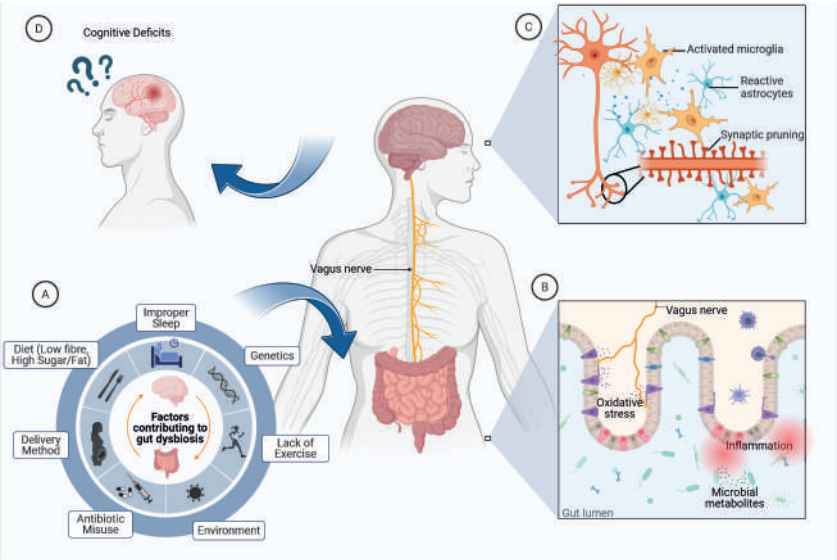
The research was carried out under a programme supported by the Department of Science and Technology (DST), Government of India, and the German Academic Exchange Service (DAAD). The team was led by Dr. Baby Chakrapani P.S., Director (in charge) of Centre of Excellence in Neurodegeneration and Brain Health (CENABH) and Hon. Director of Centre for Neuroscience, Department of Biotechnology, CUSAT, along with Prof. Martin Korte from the Technical University of Braunschweig and the Helmholtz Centre for Infection Research (HZI), Germany. The work formed part of the doctoral research of Ms. Krishnapriya, conducted under the supervision of Dr. Chakrapani.

The study examined the effects of antibiotic-induced gut dysbiosis—an imbalance in the microbial community—on physiological processes extending beyond the intestine. The findings reveal that disturbances in gut bacteria trigger inflammatory and oxidative stress responses that compromise the gut barrier. These signals subsequently reach the brain, altering its immune environment. According to Dr. Chakrapani, gut dysbiosis initiates a systemic inflammatory state that does not remain confined to the gut but eventually influences immune activity within the brain.

A key observation of the study relates to microglia, the brain's resident immune cells responsible for maintaining neural health by removing cellular debris and pruning weak or unnecessary synapses. Under prolonged inflammatory stress originating from the gut, microglia were found to become overactive, eliminating not only weak synapses but also healthy neural connections essential for learning and memory. Prof. Korte noted that this excessive synaptic pruning resulted in measurable deficits in learning and memory performance.

The researchers highlighted that gut dysbiosis is becoming increasingly common due to factors such as frequent antibiotic use, highly processed diets, chronic stress, and inadequate sleep, all of which reduce microbial diversity. While gut health is often associated primarily with digestion, the findings underscore its critical role in maintaining cognitive well-being. The study points to potential preventive and therapeutic strategies, suggesting that maintaining gut health through judicious antibiotic use, balanced nutrition, and targeted probiotic interventions may help preserve cognitive functions.

The research team anticipates that future studies will explore whether restoring microbial balance can reverse cognitive impairments and whether similar gut–brain mechanisms contribute to neurodegenerative disorders. The findings mark an important step toward a deeper understanding of the complex and dynamic relationship between the gut and the brain.





KRISHNAPRIYA



DR. BABY CHAKRAPANI



PROF. MARTIN KORTE

CUSAT and Cochin Shipyard Ltd. Sign MoU to Establish Centre of Excellence in Sustainable Shipbuilding Technology



In a significant stride toward advancing maritime innovation, CUSAT has partnered with Cochin Shipyard Limited (CSL) to establish a Centre of Excellence (CoE) in Sustainable Shipbuilding Technology on the university campus on August 29, 2025. As part of this collaboration, CSL has committed Rs. 3.53 crore for setting up the Centre.

Designed to strengthen the link between academia and the shipbuilding industry, the CoE will focus on software development, skill development, upskilling, and digitisation. Equipped with state-of-the-art computing facilities and advanced marine software, the Centre will support research in Naval Architecture, Computational Fluid Dynamics (CFD), Finite Element Analysis (FEA), and related areas. The initiative aims to foster cutting-edge innovation in ship design, shipbuilding processes, and advanced ship analysis.

The MoU marking this collaboration was ceremoniously handed over by Madhu S. Nair, Managing Director, Cochin Shipyard Ltd., to Dr. M. Junaid Bushiri, Vice Chancellor, CUSAT. For the management and implementation of the CSR-funded project, the Vice Chancellor appointed Dr. Satheesh Babu P. K., Associate Professor, Department of Ship Technology, as Coordinator, supported by Dr. Manoj T. Issac and Dr. Rajesh P. Nair, Assistant Professors in the same department, as Assistant Coordinators. The agreement was officially signed by Dr. Arun A. U., Registrar, CUSAT.

The event witnessed the presence of several distinguished CSL officials, including Anjana K. R., Chief General Manager (Design); Subhash A. K., General Manager (HR & LD); Jatesh Chandra, Deputy General Manager; Muhammed Shaheed, Assistant Manager (Design); Sampath Kumar; Harikrishnan U. R., Senior Manager (Design); CSR Advisor Yoosaf A. K.; and the CSR Manager, Cochin Shipyard Ltd.

Representing CUSAT were Dr. P. K. Baby, Syndicate Member and Director, Department of Youth Welfare; Dr. Sasi Gopalan, Syndicate Member; Girish Kumar P. G., Finance Officer; and Dr. N. Manoj, Controller of Examinations.

CUSAT Signs MoU with US-Based H2AI LLC on Green Hydrogen Research

CUSAT signed Memorandum of Understanding (MoU) with H2AI LLC, USA, marking a significant step toward strengthening international collaboration in green hydrogen research and development on December 18, 2025. The partnership aims to advance hydrogen as a practical, scalable, and affordable clean energy solution, contributing to reduced dependence on fossil fuels and the promotion of sustainable energy technologies.

The MoU was formally signed by CUSAT Registrar Dr. Arun A. U. and Mr. Roy Varghese, Board of Director, H2AI LLC, in the presence of Vice-Chancellor Prof. Dr. M. Junaid Bushiri. Nobel Laureate Prof. Dr. Joachim Frank and renowned cell biologist Prof. Dr. Banu P. Jena also witnessed the signing.



This collaboration is envisioned to foster cutting-edge research, innovation, and knowledge exchange in the sustainable hydrogen energy sector, reinforcing CUSAT's commitment to addressing global energy and environmental challenges through science and technology.

MoU with Ministry of Earth Sciences to Boost National Marine Research

CUSAT has taken a significant step toward advancing national marine and earth system research by signing an MoU with the Ministry of Earth Sciences (MoES), Government of India in December 2025. The agreement focuses on strengthening joint research, academic collaboration, and capacity-building initiatives in cutting-edge areas of marine science. The MoU was signed by Dr. Mahesh Kumar, Director, Centre for Marine Living Resources and Ecology (CMLRE), and Dr. Arun A. U., Registrar, CUSAT.

Under this partnership, CUSAT will work closely with five major MoES institutions: the National Institute of Ocean Technology (NIOT), Chennai; INCOIS, Hyderabad; NCPOR, Goa; IITM, Pune; and CMLRE, Kochi. This collaboration opens up new opportunities for joint academic and research activities across diverse marine domains.

The MoU facilitates a wide range of initiatives, including joint supervision of research scholars, student internships, access to advanced national research facilities, participation in research cruises, polar expeditions, ocean observation missions, and more — offering students and researchers unparalleled exposure to national-level scientific programs.

The function was attended by Dr. Nobi E. P., MoES Scientist; representatives from MoES; and CUSAT Syndicate members Dr. P. K. Baby and Dr. Santosh Kumar G. Also present were Dr. Satheeshan K, Director, School of Marine Sciences, and Dr. Swapna P. Antony, Assistant Professor.



MoU Inked with Confederation of Indian Industry

CUSAT and the Confederation of Indian Industry (CII), Kerala, have entered into an MoU aimed at strengthening collaboration between academia and industry in July, 2025. The partnership is expected to deepen engagement between CUSAT and CII member companies, fostering mutual growth through research, innovation, and knowledge sharing.

Through this MoU, CII member organisations will gain access to CUSAT's cutting-edge research capabilities, academic expertise, and talented student pool. In return, CUSAT will benefit from industry-driven insights, practical problem statements, and new avenues for collaborative research. The initiative is expected to bridge the gap between classroom learning and real-world applications, contributing to the development of skilled professionals and impactful research outcomes.



The MoU was formally exchanged during the CII Kerala State Council meeting by V. K. C. Razak, Chairperson, CII Kerala, and Dr. M. Junaid Bushiri, Vice Chancellor, CUSAT. The event was graced by P. Rajeeve, Hon'ble Minister for Industries, Law, and Coir, Government of Kerala, along with dignitaries including R. Harikrishnan IRTS, Executive Director, KSIDC; Joseph M. Kallivayalil, Vice Chairperson, CII Kerala; and Rikant Pittie, Co-Founder of EaseMyTrip. The MoU was signed by Dr. Arun A. U., Registrar, CUSAT, and Mr. B. Jeikrishnan, Director & Head, CII Kerala.

The collaboration outlines several joint initiatives such as sponsored research projects, establishment of Centres of Excellence at CUSAT, seminars and workshops, specialised training programmes, student internships and placements, and shared use of university resources and facilities.

Letter of Understanding Signed with Sultan Qaboos University

Sultan Qaboos University and CUSAT have formalised a new academic partnership through the signing of a Letter of Understanding (LoU) in September 2025, marking an important step toward expanding international cooperation in teaching, research, and knowledge exchange.



The LoU was signed by His Highness Sayyid Dr. Fahd bin Al Julanda Al Said, Vice-Chancellor of Sultan Qaboos University, and Dr. Arun A. U., Registrar of CUSAT. The ceremony took place in the presence of Godavarthi Venkata Srinivas, Ambassador of the Republic of India to the Sultanate of Oman, along with senior academics and officials from both institutions in September, 2025.

The agreement outlines a comprehensive framework for collaboration, enabling the exchange of scientists, faculty members, researchers, and experts for teaching assignments, joint research activities, and academic discussions. It also encourages participation in conferences, symposia, and international academic forums, and supports opportunities for faculty members to undertake sabbatical programmes at the partner institution. The partnership further includes provisions for joint research projects, technological exhibitions, and the supervision of postgraduate students at both the Master's and PhD levels.

In addition, the LoU promotes student exchanges in mutually beneficial academic areas, in accordance with the regulations of both universities. Both institutions have also committed to sharing academic resources—such as books, publications, theses, research materials, and software—while respecting all applicable copyright and licensing requirements. Reciprocal visits by faculty, researchers, and students will help strengthen academic ties, with financial arrangements for specific activities to be decided by mutual agreement.

MoU Signed with Senior Adventures LLP Under EWYL Initiative

As part of strengthening its 'Earn While You Learn' (EWYL) scheme, the Equal Opportunity Cell (EOC) of CUSAT has signed an MoU with Senior Adventures LLP, a Kerala Startup Mission–registered firm in October, 2025. Through this partnership, CUSAT students will develop a mobile application designed to support senior citizens. The university has already received ₹6 lakh for the project, marking a significant boost to the EWYL initiative and opening meaningful avenues for student-driven technological innovation.



CUSAT and BPCL Renew MoU to Strengthen Academic–Industry Collaboration



On December 22, 2025, CUSAT renewed its Memorandum of Understanding with Bharat Petroleum Corporation Limited (BPCL), reaffirming a long-standing partnership aimed at enhancing academic–industry engagement. The MoU was signed by CUSAT Registrar Dr. Arun A. U. and Shri Sankar M., Executive Director, BPCL Cochin Refinery.

Originally signed in 2019, the renewed agreement was coordinated by the Department of Ship Technology and focuses on expanding collaboration through joint research and development, consultancy, sponsored projects, training programmes, and student internships.

The signing ceremony was attended by Syndicate Members Dr. G. Santhosh Kumar and Dr. D. Mavooth; Dr. A. Mathiazhagan, Head, Department of Ship Technology; Dr. Sam Thomas, Director, IQAC; Dr. K. Sivaprasad, former Professor of Ship Technology and former Vice-Chancellor of KTU; and senior officials from BPCL including Sibi Ignatius, Roopesh M., and Sanal S.

The renewed MoU underscores CUSAT's continued commitment to meaningful industry partnerships that enhance research, innovation, and student exposure to real-world applications.

LG Soft India and CUSAT to Establish Advanced Smart Home Technology Research Lab

In the month of August, 2025, LG Soft India, Bangalore, in collaboration with CUSAT, announced a landmark partnership to set up a Smart Home Connectivity Research Lab on the university campus. This initiative aims to tackle key challenges in the rapidly growing smart home segment.

The lab will focus on overcoming connectivity barriers among diverse Internet of Things (IoT) devices, ensuring seamless communication irrespective of manufacturer. By addressing ecosystem fragmentation, the lab aims to provide a unified and reliable smart home experience. Additionally, the collaboration will leverage Artificial Intelligence (AI) and Machine Learning (ML) to create intelligent home systems that can anticipate user needs, automate tasks, and deliver personalized experiences.

Combining LG Soft India's industry expertise with CUSAT's academic and research capabilities, the partnership marks a significant step toward connected, efficient, and user-friendly living spaces.

With funding support of ₹1 crore over three years, CUSAT will establish the lab and provide the required academic and technical resources. Prof. Santosh Kumar G., Professor of Computer Science and Director of the Centre for Information Resource Management at CUSAT, noted, "The Rs 1 crore funding over three years will enable CUSAT to establish the lab and provide research support."

Delegation from Japan Science and Technology Agency Visits CUSAT to Explore Academic Collaboration

A high-level delegation from the Japan Science and Technology Agency (JST), operating under the Ministry of Education, Culture, Sports, Science and Technology (MEXT), Government of Japan, visited CUSAT to explore avenues of academic and research collaboration in October, 2025.

The delegation included Mr. Yuji Nishikawa, Advisor, JST, and Mr. Takashi Konishi, Director, Sakura Science Program Headquarters.

The team held a detailed meeting with CUSAT Vice-Chancellor Dr.M. Junaid Bushiri, discussing potential partnerships between CUSAT and leading universities in Japan. The discussion focused on strengthening research cooperation, academic exchange, and collaborative programmes.

Following the meeting, the delegation interacted with Heads and Professors from key departments to identify specific areas for joint research projects and student–faculty exchange programs. During the session, the team introduced the LOTUS Program, a new JST initiative offering opportunities for 300 young Indian researchers to conduct research at Japanese universities and institutes for up to one year.

The delegation also extended an invitation to CUSAT to participate in the upcoming 4th Japan–India Universities Forum (JIUF) at IIT Hyderabad.

As part of their visit, the team toured several major research facilities and laboratories at CUSAT, gaining insights into the University's ongoing scientific and technological initiatives.



Since its launch in 2015, JST's Sakura Science Program (SSP) has facilitated short-term academic exchanges for over 4,000 students, researchers, and faculty members from India, in collaboration with India's Department of Science and Technology (DST) and Ministry of Education (MoE). This year, over ten students from CUSAT have been selected to participate in the program, marking a growing engagement between CUSAT and Japanese academic institutions.

The visit was coordinated by the Dr. Hareesh N. Ramanathan, Director, Directorate of International Relations, CUSAT. The discussions were attended by Dr. Aldrin Antony ,Head, Department of Physics, Dr. Kailasnath, Director, International School of Photonics, Dr. Deepthy Das Krishna, Head, Department of Electronics, Dr. Bijoy Antony Jose, Professor, Department of Computer Science, Dr. Pramod Pavithran, Head, Division of Computer Science, School of Engineering, and Dr. M. B. Santhosh Kumar, Head, Division of Information Technology, School of Engineering.

IBM Automation and AI GM Neel Sundaresan Visits CUSAT

In September 2025, CUSAT hosted Neel Sundaresan, General Manager of Automation and AI at IBM, for an engaging session on "Software Engineering in the Age of AI." With over 25 years of experience spanning IBM, Microsoft, eBay, and the startup ecosystem, Sundaresan shared insights on the transformative role of AI and automation in modern technology.

During the session, he highlighted emerging opportunities such as new career paths, entrepreneurial ventures, and cross-disciplinary innovation, while also addressing concerns around job disruptions in the Generative AI era. His key message emphasised the importance of strong technical foundations, creativity, adaptability, and a growth mindset for staying relevant in a rapidly evolving technology landscape.



The event was organised by the Division of Information Technology, School of Engineering, CUSAT, and witnessed enthusiastic participation from students and faculty.

Minister R. Bindhu Inaugurates CUSAT Merit Day 2025

CUSAT stands out as a university established with a strong focus on science and technology, driving research and innovation in these vital fields. It continues to provide the confidence and strength our nation needs to face the challenges of a rapidly changing world," said Dr. R. Bindu, Minister for Higher Education and Social Justice and Pro-Chancellor of CUSAT, while inaugurating CUSAT Merit Day 2025 on October 27, 2025. She also noted that CUSAT had consistently contributed to society by extending its impact beyond campus walls, producing numerous research-driven innovations beneficial to both the community and the wider world.

CUSAT Vice Chancellor Dr. M. Junaid Bushiri presided over the function. Dr. P. K. Baby, Syndicate Member and Director, Department of Youth Welfare; Dr. Arun A. U., Registrar; Dr. Sam Thomas, IQAC Director; and Dr. N. Manoj, Controller of Examinations, also spoke on the occasion.

The Distinguished Young Faculty Award 2024 was presented to Dr. Swapna P. Antony, Assistant Professor, Department of Marine Biology, Microbiology and Biochemistry; Dr. Manoj M. G., Scientist D, Advanced Centre for Atmospheric Radar Research; and Dr. Praveen C. S., Assistant Professor, International School of Photonics. The Distinguished Researcher Award 2024 was presented to Dr. Silpa S., International School of Photonics; Mohammed Hashim K. K., Department of Chemistry; Mukul Dev Surira, School of Management Studies; and Hari Praved P., Department of Marine Biology, Microbiology and Biochemistry.



DR. R. BINDU, MINISTER FOR HIGHER EDUCATION AND SOCIAL JUSTICE AND PRO-CHANCELLOR OF CUSAT DELIVERING THE INAUGURAL ADDRESS

In addition, 27 University Endowment Awards were presented to academically outstanding students from various departments, and 28 students who excelled in national and international level arts and sports competitions during 2024–25 were felicitated.

Minister P. Rajeeve Inaugurates Skill Development Hub

"Skill development in the field of education is an area in which the State Government is giving focused attention. The need of the hour is to link the existing education system with the global employment market," said P. Rajeeve, Minister for Law, Industries and Coir, while inaugurating the Skill Development Hub at CUSAT on October 31, 2025.

The Minister observed that universities, syndicates, and academic councils needed to introduce timely and relevant curricular reforms in line with evolving global trends. He also stressed the importance of launching new job-oriented programmes to enhance students' employability and skill sets. On the occasion, the logo of the Skill Development Hub was also unveiled.

The function was presided over by Vice Chancellor Dr. M. Junaid Bushiri. Syndicate Member Dr. Sasi Gopalan, Registrar Dr. Arun A. U., Dr. Santhosh Kumar S., Director of the Deen Dayal Upadhyay Kaushal Kendra and the Skill Development Hub, and Dr. Aparna Lekshmanan S., Professor, Department of Mathematics and Soft Skill Coordinator, also addressed the gathering.



P. RAJEEVE, MINISTER FOR LAW, INDUSTRIES AND COIR, INAUGURATING THE SKILL DEVELOPMENT HUB

The Skill Development Hub was established with the objective of equipping youth with practical skills and technical knowledge aligned with contemporary job markets, thereby nurturing innovation and enabling meaningful contributions to regional and national development. The initiative aimed to expand research and learning opportunities in Technology, Engineering, Science, and Mathematics, while promoting lifelong learning programmes that foster excellence in both academic and professional spheres.

Quantum Century Exhibition at CUSAT Takes Quantum Science to Society

CUSAT marked Kerala's statewide celebrations of 100 years of quantum science with the Quantum Century Exhibition, organised by the Centre for Science in Society (C-SiS) in collaboration with the Kerala Sasthra Sahithya Parishad (KSSP), LUCA Science Portal and several higher educational institutions, with the support of universities, colleges, planetariums and public organisations across the state.

As part of the preparations for the exhibition, the official logo of the Quantum Century Exhibition was formally released at CUSAT by Vice-Chancellor Dr. M. Junaid Bushiri. The logo launch marked an important milestone in the university's initiatives aligned with the United Nations declaration of 2025 as the International Year of Quantum Science and Technology. The function was attended by Syndicate Members Dr. P. K. Baby and Dr. Shashi Gopalan; Head of the Department of Physics Dr. Aldrin Antony; Director, C-SiS, Dr. P. Shaiju; Planning and Development Officer Saida K. M.; former Editor of LUCA Dr. N. Shaji; and representatives from LUCA Science Portal, including Manoj T. M. and Rimju K. V., among others.

The curtain raiser for the exhibition was held on October 28 at the Centre for Science in Society, CUSAT, and was inaugurated by P. Rajeev, Hon'ble Minister for Law, Industries and Coir, Government of Kerala.



VICE CHANCELLOR DR. M. JUNAID BUSHIRI RELEASING THE LOGO OF QUANTUM CENTURY EXHIBITION

The function was presided over by the Vice-Chancellor, Dr. M. Junaid Bushiri. The curtain raiser formally launched Kerala's participation in the global observance of the Quantum Century, ahead of the travelling exhibition that commenced in November.

CUSAT marked Kerala's statewide celebrations of 100 years of quantum science with the Quantum Century Exhibition, organised by the Centre for Science in Society (C-SiS) in collaboration with the Kerala Sasthra Sahithya Parishad (KSSP), LUCA Science Portal and several higher educational institutions, with the support of universities, colleges, planetariums and public organisations across the state.

As part of the preparations for the exhibition, the official logo of the Quantum Century Exhibition was formally unveiled at CUSAT by Vice-Chancellor Dr M. Junaid Bushiri on August 12, 2025. The logo launch marked a significant milestone in the university's initiatives, aligning with the United Nations' declaration of 2025 as the International Year of Quantum Science and Technology. The function was attended by Syndicate Members Dr. P. K. Baby and Dr. Shashi Gopalan; Head of the Department of Physics Dr. Aldrin Antony; Director, C-SiS, Dr. P. Shaiju; Planning and Development Officer Saida K. M.; former Editor of LUCA Dr. N. Shaji; and representatives from LUCA Science Portal, including Manoj T. M. and Rimju K. V., among others.

CURTAIN RAISER



P. RAJEEVE, MINISTER FOR LAW, INDUSTRIES AND COIR, GOVERNMENT OF KERALA AT THE CURTAIN RAISER EVENT OF QUANTUM CENTURY EXHIBITION.

The curtain raiser for the exhibition was held on October 28, 2025 at the Centre for Science in Society, CUSAT, and was inaugurated by P. Rajeeve, Hon'ble Minister for Law, Industries and Coir, Government of Kerala. The function was presided over by the Vice-Chancellor, Dr. M. Junaid Bushiri. The curtain raiser formally launched Kerala's participation in the global observance of the Quantum Century, ahead of the travelling exhibition that commenced in November.



QUANTUM CAT

INAUGURATION

The ten-day inaugural edition of the exhibition was held from November 7 to 16 at the Centre for Science in Society, CUSAT, before proceeding to other centres across Kerala. The inaugural ceremony was attended by Dr. R. Bindu, Hon'ble Minister for Higher Education, Government of Kerala, who emphasised that higher education institutions had a responsibility to ensure that the benefits of major scientific advancements reached society. She appreciated CUSAT and KSSP for taking quantum science beyond academic boundaries and presenting it to the general public.

The inaugural function was presided over by the Vice-Chancellor, Dr. M. Junaid Bushiri. Dr. P. K. Baby, Syndicate Member; Dr. Arun A. U., Registrar; Dr. P. Shaiju, Director, C-SiS; and T. K. Meerabhai, State General Secretary, Kerala Sasthra Sahithya Parishad, also addressed the gathering.

The exhibition was organised in the context of the centenary of landmark discoveries in quantum science made in 1925, including Wolfgang Pauli's Exclusion Principle and Erwin Schrödinger's wave equation, which laid the foundation for modern quantum mechanics. The displays highlighted how quantum science underpins technologies such as LED lighting, solar panels, computers, lasers used in medical treatments, MRI and PET scanners, GPS systems, electron microscopes and nanotechnology-based materials. Special emphasis was also given to India's contributions to the field, including Dr. C. V. Raman's discovery of the Raman Effect.

Designed to dispel the notion that quantum science is accessible only to specialists, the Quantum Century Exhibition featured interactive experiments, installations, models and competitions introducing key areas such as superconductivity, photonics and nanoscience. Visitors were able to view real elements from the periodic table and engage with scientific concepts through holograms, simulations, virtual reality, lasers and spherical projections. By transforming complex quantum phenomena into experiential learning, the exhibition engaged students, teachers, researchers and the general public, with college students and educators participating as Exhibition Explainers.



DR. R. BINDU, HON'BLE MINISTER FOR HIGHER EDUCATION, GOVERNMENT OF KERALA, INAUGURATING THE QUANTUM CENTURY EXHIBITION



DR. R. BINDU, HON'BLE MINISTER FOR HIGHER EDUCATION, GOVERNMENT OF KERALA, DELIVERING THE INAUGURAL ADDRESS





DR. R. BINDU, HON'BLE MINISTER FOR HIGHER EDUCATION, GOVERNMENT OF KERALA, IN THE EXHIBITS OF THE QUANTUM CENTURY EXHIBITION

Revive '25 Highlights Need for Early Anti-Drug Awareness

MP Hibi Eden underscored the importance of creating anti-drug awareness from an early age while inaugurating Revive '25, the anti-drug awareness campaign organised by CUSAT on July 15, 2025. Emphasising prevention over rehabilitation, he noted that educating children about the harmful effects of drugs was far more effective than attempting to address addiction at later stages. He also called for sustained and impactful awareness initiatives to build a safe, informed, and resilient society.

The inaugural session featured Mr. Hareesh, Assistant Excise Commissioner, who elaborated on the legal framework governing drug prevention, including relevant laws and penalties. Sub-Inspector Renjith of Kalamassery Police highlighted the adverse physical and social consequences of drug abuse and drew attention to the Kerala Police helpline Yodhav (9995966666) for reporting drug-related complaints and seeking assistance.

The programme was presided over by Vice Chancellor Dr. M. Junaid Bushiri. Registrar Dr. A. U. Arun and Dr. Ananthu S, CEO of Xylem, were among those who took part in the event.

As part of the campaign, interactive sessions were held with cine actors Shane Nigam, Vishnu Unnikrishnan, and Lalu Alex. A panel discussion on the impact of drug use on youth featured Dr. Alisha Sulaiman, Dr. Priyanka, and entrepreneurs Noorin Ayesha and Tasni Rafiq, among others. Anti-drug messages were also delivered by Dr. Ananthu S and Akhil Marar.



MP HIBI EDEN INAUGURATING REVIVE'25 IN THE PRESENCE OF VICE CHANCELLOR DR. JUNAID BUSHIRI, REGISTRAR DR. ARUN A U, ASST. EXCISE COMMISSIONER HAREESH AND KALAMASSERY SUB INSPECTOR RENJITH

Revive '25 included a wide range of student-centric activities such as thematic shows, live band performances, poster-making, live coding, short film and reel-making competitions. Cultural and awareness-oriented programmes, including a stand-up comedy performance by Sabarish and a mentalism show by Arjun Satheesh, added to the engagement. Skill development workshops were conducted by Babu Pallassery, Utpal Nayanar, and Vijay Chandrabose, focusing on cinema, digital marketing, information technology, and investment.

The campaign concluded with a valedictory session attended by P. Rajeeve, Minister for Law, Industries and Coir, as chief guest, along with Kochi City Police Commissioner Putta Vimaladitya IPS and Vice Chancellor Dr. M. Junaid Bushiri.

National Cyber Security Conference Held at CUSAT

CUSAT in association with the National Cyber Security Research Council (NCSRC), organised a national cyber security conference titled "Cyber India 2030: Innovation, Defence and Trust at Scale". The conference was inaugurated by City Police Commissioner Putta Vimaladitya on July 5, 2025. CUSAT Vice Chancellor Prof. Dr. M. Junaid Bashri presided over the inaugural session.

NCSRC Director and IRITA Cyber Security Vice President Dr. E. Khaliyaraj, State Coordinator Dr. Prince Joseph, and IT Leaders Community founding member and V-Guard Films General Manager Sangeeth K. Mohan addressed the gathering. Experts from leading international and national institutions delivered lectures across various sessions, focusing on emerging cyber threats and effective defence mechanisms.



VICE CHANCELLOR DR. M JUNAID BUSHIRI DELIVERING THE INAUGURAL ADDRESS

The conference formed part of a nationwide cyber security awareness and innovation initiative aimed at fostering innovation and trust in India's digital security ecosystem.

Dr. M. Junaid Bushiri Inaugurates International Conference on Entrepreneurship for a Sustainable Future



VICE CHANCELLOR DR. M JUNAID BUSHIRI DELIVERING THE INAUGURAL ADDRESS



VICE CHANCELLOR DR. M JUNAID BUSHIRI ALONG WITH OTHER DELEGATES

CUSAT Vice-Chancellor Dr. M. Junaid Bushiri highlighted the critical role of curriculum reform in building sustainable entrepreneurial capacity among youth while inaugurating the international conference on Entrepreneurship for a Sustainable Future on November 18. The conference was jointly organised by Loyola College of Social Sciences, Thiruvananthapuram, the School of Management Studies, CUSAT, and ASEM Life Long Learning, Denmark.

Dr. Bushiri observed that the shortage of entrepreneurial skills among young people had contributed to lower employment rates and had weakened poverty-alleviation efforts. He noted that although sectors such as agriculture, services and industry offered immense scope, innovative ventures—especially in value-added agriculture—had not developed to their full potential. This gap, he pointed out, stemmed largely from the continued emphasis of academic institutions on narrow, discipline-specific training.

Stressing the urgency of curriculum reform, the Vice-Chancellor underscored the need for academic programmes that prioritised sustainable entrepreneurship and fostered creativity, courage and social responsibility. He emphasised that curricula integrating theoretical foundations with real-world exposure were essential to equip young people to build resilient and sustainable enterprises.

The conference featured a keynote address by Dr. Søren August Ehlers of the University of Copenhagen, Denmark, followed by an interactive session led by Dr. Johannes Lindner of Youth Start, Vienna, a leading institution in entrepreneurship education and research.

Educators from the higher secondary level onwards, entrepreneurs and academic experts from Kerala, other parts of India and abroad participated in the two-day conference, which concluded on November 19.

Virtual Lecture on Counter Terrorism Strategies Held

The Prof. N. R. Madhava Menon Interdisciplinary Centre for Research Ethics and Protocols conducted a virtual lecture on "Strategies and Efforts of the Counter-Terrorism Committee Executive Directorate (CTED) in Contemporary Times: A Synopsis Overview" on July 21, 2025.

The programme was organised in collaboration with the National University of Advanced Legal Studies, School of Legal Studies, Inter University Centre for IPR Studies, CUSAT, and the Kerala Law Academy Law College, Thiruvananthapuram. The virtual lecture focused on contemporary global counter-terrorism frameworks and institutional responses.

The session featured Mr. Ahmed Essmat Seif El-Dawla, Section Chief at the Executive Directorate of the United Nations Security Council Counter-Terrorism Committee, as the resource person. His address provided an overview of the



AHMED ESSMAT SEIF EL-DAWLA

strategies, initiatives and operational efforts undertaken by CTED in addressing evolving security challenges in the present global context.

AQUASEM'25 Brings Global Scientists Together at CUSAT for Sustainable Aquatic Systems



VICE CHANCELLOR DR. M JUNAID BUSHIRI DELIVERING THE INAUGURAL ADDRESS

CUSAT hosted AQUASEM'25, an international conference on sustainable aquatic systems, organised by the Department of Chemical Oceanography at the School of Marine Sciences in August 2025. The conference brought together scientists and researchers from India and abroad to deliberate on scientific approaches for ensuring the sustainability of aquatic environments.

The conference was inaugurated by Vice-Chancellor Dr. M. Junaid Bushiri. It was organised in collaboration with the Society of Aquatic Chemists (SAC), the Ocean Society of India, and the Ministry of Earth Sciences. The technical sessions focused on key themes including biogeochemical processes essential for aquatic system stability, stable isotopes, remote sensing applications, ecosystem management, water quality, water pollution and climate change.

AQUASEM'25 also provided a platform for students and young researchers from various universities and colleges to present their research findings. The deliberations were aligned with the objectives of the United Nations Decade of Ocean Science for Sustainable Development (2021–2030), reinforcing the global relevance of the discussions.

The inaugural and technical sessions were attended by eminent scientists including Dr. Grinson George, Director, ICAR–CMFRI; Dr. Habeeb Rahman K., Head, Department of Chemical Oceanography; Dr. Annie Bourbonnais, Associate Professor, University of South Carolina; Dr. N. P. Kurian, scientist from Colombia; Prof. Dr. S. Bijoy Nandan from the Departments of Marine Biology, Microbiology and Biochemistry; and distinguished alumnus Dr. Siby Kurian, among others.

As part of the conference, an alumni meet of the Department of Chemical Oceanography was held. Alumni working across India and in different parts of the world participated in the meet, which aimed to strengthen international collaborations and provide a forum for the exchange of knowledge and professional experience.

Sheela Thomas IAS Inaugurates the convocation ceremony of M.Sc. Computer Science of CUCEK

"Do not confine yourself to dreams alone. Keep thinking, stay hungry for knowledge, and always explore new directions," said Ms. Sheela Thomas, Indian Administrative Service (Retired), Chairperson and Managing Director of Kerala Rubber Limited.

She was delivering the graduation address at the convocation ceremony of Master of Computer Applications and Bachelor of Technology students of the Cochin University College of Engineering Kuttanad. Emphasising the role of young professionals in nation-building, she urged graduates to use the knowledge, skills, and opportunities they have gained to contribute meaningfully to the progress of society.



SHEELA THOMAS IAS INAUGURATING THE CONVOCATION CEREMONY

The graduation ceremony was held at the CUSAT Seminar Complex and was presided over by Dr. M. Junaid Bushiri, Vice-Chancellor, CUSAT. The event was attended by Dr. Arun A. U., Registrar, CUSAT; Dr. Ashalatha R., Principal, Cochin University College of Engineering Kuttanad; Dr. N. Manoj, Controller of Examinations, CUSAT; Dr. Sreejith P. S., Syndicate Member, CUSAT; and Dr. Senthil Prakash M. N., Faculty Dean, CUSAT.

Convocation Ceremony for B.Tech Graduates

CUSAT held the convocation ceremony for the 2021–25 batch of B.Tech students of the School of Engineering on August 19, 2025. The ceremony was inaugurated by Putta Vimaladitya, Commissioner of Kochi City Police. The event, organised at the CUSAT Seminar Complex, was presided over by Vice Chancellor Dr. M. Junaid Bushiri. Registrar Dr. Arun A. U., Controller of Examinations Dr. N. Manoj, Principal of the School of Engineering Dr. Abdulla P., and Faculty Dean Dr. Senthil Prakash M. N. were among the dignitaries present.



PUTTA VIMALADITYA, COMMISSIONER OF KOCHI CITY POLICE DELIVERING THE INAUGURAL ADDRESS

Convocation Ceremony for MBA Graduates

"MBA is not just a degree, it is also a mindset. It equips us with the ability to analyse problems, make decisions in times of uncertainty, lead across diverse fields, and create value," said Kerala Management Association President K. Harikumar. He was delivering the graduation address at the ceremony of the School of Management Studies.

Highlighting the essence of leadership, he noted that what distinguishes a leader is not knowledge alone. "Management can be taught in business schools, but leadership can only be taught by life," he remarked, urging graduates to embrace challenges with resilience and integrity.

The graduation ceremony, held at the Seminar Complex, was presided over by Vice Chancellor Dr. M. Junaid Bushiri. The function was attended by Dr. D. Mavoothu, Syndicate Member and Dean, Faculty of Social Sciences; Dr. Sreejith P. S., Syndicate Member and Dean, Faculty of Technology; Dr. Arun A. U., Registrar; Dr. Sam Thomas, Director, School of Management Studies; Dr. Manoj N., Controller of Examinations; and Dr. Fezeena Khadir, Associate Professor, School of Management Studies, among others.



KERALA MANAGEMENT ASSOCIATION PRESIDENT K. HARIKUMAR DELIVERING THE GRADUATION ADDRESS

International Workshop on Energy Materials Conducted at CUSAT

The International Workshop on Energy Materials (IWEM 2025), organised by the Inter-University Centre for Nanomaterials and Devices (IUCND) at CUSAT, was held at the Seminar Complex, CUSAT. The workshop was inaugurated by Dr. Mats Anderson, Director of the Flinders Institute of Nano Science and Technology, Australia, and presided over by Dr. Arun A. U., Registrar, CUSAT.

The two-day workshop featured presentations by around ten scientists from India and abroad, with special emphasis on advanced energy sectors such as hydrogen energy and tribo-electric nanogeneration. Detailed discussions were also held on state-of-the-art characterization techniques including XPS, XRD, SEM, TEM, and Raman Spectroscopy.

The event was attended by Dr. Honey John, Director of IUCND, Dr. N. Manoj, Controller of Examinations, CUSAT, and Dr. Nisha T. P., Assistant Professor at St. Teresa's College.



DR. MATS ANDERSON, DIRECTOR OF THE FLINDERS INSTITUTE OF NANO SCIENCE AND TECHNOLOGY, AUSTRALIA, INAUGURATING THE WORKSHOP

79th Independence Day Celebrated at CUSAT

The 79th Independence Day was celebrated at the Thrikkakara campus of CUSAT on Friday, with Vice-Chancellor Dr. M. Junaid Bushiri hoisting the national flag in front of the Administrative Office building.

Paying tribute to the freedom fighters and martyrs who secured the nation's independence, Dr. Bushiri urged the CUSAT community to uphold the Constitution and democratic values, emphasizing the importance of contributing to solutions for technological and environmental challenges. "It's our responsibility as patriots to work together to address challenges ranging from climate change to economic disparity," he said.



VICE-CHANCELLOR DR. M. JUNAID BUSHIRI HOISTING THE NATIONAL FLAG IN FRONT OF THE ADMINISTRATIVE OFFICE BUILDING

The event was attended by Heads of Departments, faculty members, administrative staff, students, and members of the public, reflecting the university's collective spirit in celebrating national pride and responsibility.

Advancing 'Earn While You Learn' at CUSAT

CUSAT's Equal Opportunity Cell (EOC) marked a significant milestone in the expansion of its flagship 'Earn While You Learn' (EWYL) scheme by securing key corporate and government partnerships along with financial support. The developments were reviewed during a meeting of the EOC Advisory Committee and Assistant Coordinators held on October 18, 2025.

The meeting was chaired by Vice-Chancellor Dr. M. Junaid Bushiri and featured Dr. Jojy P. Joy, Chief Technology Officer, Geojit Financial Services Ltd., as the chief guest. Syndicate Member and EOC Coordinator Dr. Sasi Gopalan welcomed the gathering and outlined the progress of the scheme.



DR. JOJY P. JOY, CHIEF TECHNOLOGY OFFICER, GEOJIT FINANCIAL SERVICES LTD., HANDING OVER THE CHEQUE IN THE PRESENCE OF VICE-CHANCELLOR DR. M. JUNAID BUSHIRI & DR. SASI GOPALAN, SYNDICATE MEMBER, REGISTRAR DR. ARUN A U & FINANCE OFFICER CMA GIRISH KUMAR PG

As part of the programme, Geojit Financial Services Ltd. handed over a cheque for Rupees 75,000 to the University in recognition of student performance under the 2024 EWYL scheme. The Vice-Chancellor distributed the financial support to selected students. The occasion also marked the formal handover of the 2025 EWYL student intern batch from the Departments of Computer Science, Computer Applications, and the School of Engineering to Geojit Financial Services Ltd.

The EOC also highlighted a successful collaboration with the Kerala Water Authority, under which students developed an application to identify underground pipelines. The project earned Rupees 4 lakh for the student contributors, demonstrating the practical and societal impact of the scheme.

Dr. Sasi Gopalan noted that the EWYL initiative has been drawing increasing interest from industry partners, as it effectively integrates academic learning with real-world professional experience. The meeting was attended by Dr. Arun A. U., Registrar; Girish Kumar, Finance Officer; representatives from Geojit Financial Services Ltd.; Advisory Committee members; Assistant Coordinators Dr. Meera Prathapan and Dr. Beena John; and participating students.

Deen Dayal Upadhyay Kaushal Kendra: A Decade of Skill and Excellence



VICE CHANCELLOR DR. M JUNAID BUSHIRI INAUGURATING DECENNIAL CELEBRATIONS AND LOGO LAUNCH OF THE DEEN DAYAL UPADHYAY KAUSHAL KENDRA (DDUKK)

The inaugural ceremony of the Decennial Celebrations and Logo Launch of the Deen Dayal Upadhyay Kaushal Kendra (DDUKK) was inaugurated by Dr. M. Junaid Bushiri, Vice Chancellor. The event marked a significant milestone in the Kendra's decade-long journey in skill-oriented education and capacity building. The programme was held on October 6, 2025.

Dr. Santosh Kumar, Director of DDUKK, presided over the function. The chief guest, Mr. Prasad Panicker, Executive Chairman of Nayara Energy Ltd., released the Decennial Souvenir and formally inaugurated the M.Voc Banking and Finance Programme, highlighting the Kendra's continued focus on industry-relevant academic initiatives.

The programme featured addresses by Dr. Arun A. U., Registrar; Dr. Zakariya K. A., Professor, School of Management Studies and former Director of DDUKK; S. R. Nair, Entrepreneur, Mentor and Author; Dr. Ranjith Raj, Founder, Paddle Business Consultants; Gino P. John, PTA Vice President; Dr. N. Manoj, Controller of Examinations; and Devaki R. Menon, President, DDUKK Alumni Association. Their reflections underscored the academic, professional, and societal contributions of the Kendra over the years.

An award ceremony was inaugurated by Ms. Sujatha Madhav Chandran, Chief of Strategic Initiatives, TCS ECBO, to honour students for excellence in academics and extracurricular achievements. University faculty members, former teachers, PTA members, alumni, and students attended the celebration, making the occasion a memorable one in the history of the Kendra.

Applied Chemistry Marks Golden Jubilee



The Department of Applied Chemistry, CUSAT, marked its 50th Foundation Day on November 19, 2025, commemorating five decades of academic excellence and contribution to science education. Established on November 18, 1976, the department also paid tribute to the eminent individuals who had played a pivotal role in its growth and evolution over the years.

Former faculty members Prof. K. L. Sebastian, Prof. S. Sugunan, Prof. K. K. Yusuf and Prof. Sreekumar, along with Emeritus Professors K. Girishkumar and S. Prathapan, graced the occasion as chief guests. The jubilee celebrations were inaugurated with the lighting of the traditional lamp by the former faculty members.

During the programme, former teachers shared their experiences and reflections from various phases of the department's journey, offering insights into its academic development. They highlighted the notable achievements of the department, as well as the accomplishments of its students and alumni. CUSAT Controller of Examinations Dr. N. Manoj addressed the gathering and spoke on the need for academic reforms in the contemporary higher education landscape.

As part of the golden jubilee celebrations, a year-long series of academic and outreach activities—including conferences, workshops, training programmes, industry interactions, alumni meets and open days for school and college students—was planned, according to the Head of the Department, Dr. Yoosaf Karuvath. The celebrations concluded with a vote of thanks by Dr. Jayasree.

K. K. George Memorial Lecture



SARADA MURALEEDHARAN, FORMER CHIEF SECRETARY TO THE GOVERNMENT OF KERALA, DELIVERING THE MEMORIAL LECTURE

The School of Management Studies (SMS) in association with the Centre for Socio-economic & Environmental Studies (CSES), organised the Professor K. K. George Memorial Lecture 2025 at the Seminar Complex on November 20, 2025.

The memorial lecture was delivered by Sarada Muraleedharan, former Chief Secretary to the Government of Kerala, on the theme Decentralised Governance and Climate Resilience. In her address, she examined the significance of decentralised governance systems in strengthening institutional and community resilience in the face of climate change.

The lecture series was instituted in memory of Prof. K. K. George, a renowned Indian economist and public finance expert who played a seminal role in shaping Kerala's development discourse. Widely recognised for his influential contributions to the "Kerala Model" of development and centre–state fiscal relations, Prof. George served as Chairman of CSES and was a former Director of the School of Management Studies, CUSAT. Beyond academia, he was a committed environmental activist associated with the Silent Valley movement, a respected mentor, and a prolific author whose work left a lasting imprint on policy and research. He passed away in August 2022.

Dr. Sam Thomas, Director, SMS, Dr. P. K. Michael Tharakan, Chairperson, CSES, and Dr. Rakkee Timothoy, Fellow, CSES, also spoke on the occasion, reflecting on Prof. George's academic legacy.

iCANOE 2025 Explores Advances in Naval Architecture and Ocean Engineering

The Department of Ship Technology, CUSAT, organised the International Conference on Advances in Naval Architecture and Ocean Engineering (iCANOE 2025) on November 28, 2025, bringing together experts from academia, industry and research organisations.

The conference was inaugurated by Vice-Chancellor Dr. M. Junaid Bushiri. Mr. Yoichi Iga, Regional Manager (Middle East & South Asia), ClassNK, Japan, attended the inaugural session as Chief Guest. The function was presided over by Dr. Mathiazhagan A., Head of the Department of Ship Technology, with Dr. Rajesh P. Nair and Dr. Haseena K. A., Assistant Professors, also present.

The conference deliberations focused on key themes including computational methods, ship design and production, advanced materials and corrosion, automation and green shipping, and offshore structures. In his Chief Guest address, Mr. Yoichi Iga highlighted two major transformations shaping the global



shipping sector—digitalisation and decarbonisation. He discussed the role of digital twins, AI-enabled ship monitoring systems and the uncertainties surrounding the adoption of alternative fuels. He also acknowledged India's significant contributions to maritime research and emphasised the importance of sustained research in strengthening classification standards.

The second day of the conference featured the presentation of the Captain Mohan Ram Endowment Award. Mr. Shashwat Singh recalled the distinguished legacy of Captain N. S. Mohan Ram, a pioneer in India's indigenous warship design. The award was presented to Sub Lieutenant Shailender Singh, who, in his acceptance speech, expressed gratitude to his teachers, the Department of Ship Technology and the Naval Construction Wing for their mentorship and academic guidance, which he noted would be instrumental throughout his career.

During the concluding session, the Registrar of CUSAT highlighted the Department of Ship Technology's long-standing contributions to maritime education and research. He shared reflections on his association with naval cadets at the university and noted the department's strong global alumni presence, its pivotal role in supporting India's defence sector through naval vessel construction and maintenance, and the continued support it received from industry partners such as Cochin Shipyard and Mazagon Dock.

Grammy Award Winner Pandit Vishwa Mohan Bhatt Enchants CUSAT with Mohan Veena Performance

CUSAT hosted a captivating Mohan Veena concert by internationally acclaimed Grammy Award–winning musician Pandit Vishwa Mohan Bhatt at the Seminar Complex, as part of the observance of the International Day of Persons with Disabilities. The programme was jointly organised by the National Service Scheme (NSS), CUSAT, and SPIC MACAY (Society for Promotion of Indian Classical Music and Culture Amongst Youth).

Pandit Vishwa Mohan Bhatt, renowned for creating the rare string instrument Mohan Veena, mesmerised the audience with a soulful and immersive performance. A distinguished disciple of Pandit Ravi Shankar, he is widely recognised for his pioneering contributions to Indian classical music. His illustrious career has been honoured with several prestigious awards, including the Padma Shri and the Padma Bhushan.

The Mohan Veena, an innovative fusion of the Western Hawaiian guitar with the Indian sitar, sarod, and veena, captivated listeners with its rich tonal quality and expressive depth. The concert offered a memorable musical experience, highlighting both the versatility of the instrument and Pandit Bhatt's exceptional artistry.



PANDIT VISHWA MOHAN BHATT PERFORMING WITH THE MOHAN VEENA

Reflecting the spirit of the International Day of Persons with Disabilities, children from Vimukti Special School attended the programme as special guests, adding special significance to the event.

CUSAT Announces Award Winners of RMO 2025 from Kerala–Lakshadweep Region



ADVAITH U



ATHUL MANOJ



POOJA MOHAN



SARANG PRAJOSH



SREEJESH SUNIL



VARUN MENON

On December 2025, the Department of Mathematics, CUSAT, in collaboration with the Homi Bhabha Centre for Science Education and Research (HBCSE), announced the award winners of the Regional Mathematics Olympiad (RMO) 2025 from the Kerala–Lakshadweep region. The awards were announced by the Vice Chancellor of CUSAT, Dr. M. Junaid Bushiri.

Nearly 300 students from the region participated in the first-level examination, the Indian Olympiad Qualifier in Mathematics (IOQM). Of these, 42 students qualified for RMO 2025, making them eligible to appear for the national-level Indian National Mathematics Olympiad (INMO) 2026.

A five-day training camp for the selected students was conducted in December at the Department of Mathematics, CUSAT. In Regional Category A, Pooja Mohan of Viswajyothi Public School, Angamaly, won the gold medal. Varun Menon of Bharatiya Vidya Bhavan, Poochatty, Thrissur, secured the silver medal, while Athul Manoj of Naipunnya Public School, Kakkanad, won the bronze medal.

In Category B, Sreejesh Sunil of Devamatha CMI Public School, Thrissur, won the gold medal. Sarang Prajosh, also from Devamatha CMI Public School, secured the silver medal, and Adhvaith U of Devagiri Public School, Kozhikode, won the bronze medal.

The Ever Rolling Trophy for the year's championship was awarded to Viswajyothi Public School by the Vice Chancellor. Addressing the gathering in December, Dr. M. Junaid Bushiri appreciated the efforts of the Kerala–Lakshadweep region in promoting mathematical excellence and emphasised the importance of nurturing strong mathematical foundations among students, particularly in the context of emerging areas such as Artificial Intelligence and Machine Learning.

The function was presided over by Dr. Sherry Fernandes, Head of the Department of Mathematics, CUSAT.

Ocean Technology International Symposium 'Sympol 2025' Inaugurated at CUSAT

The Department of Electronics in association with the IEEE Oceanic Engineering Society organised Sympol 2025, an Ocean Technology International Symposium. One of the university's flagship biennial events, Sympol brings together researchers, technologists, and industry leaders from across the globe to deliberate on advances in ocean technology.

The symposium was inaugurated by Dr. Duvvuri Seshagiri, Director, Naval Physical and Oceanographic Laboratory (NPOL), at a function presided over by the Vice Chancellor of CUSAT, Dr. M. Junaid Bushiri. In his inaugural address, Mr. Seshagiri underscored the growing importance of ocean technology in areas such as national security, climate research, underwater sensing, and autonomous marine systems. He commended Sympol for providing an international platform to discuss emerging technologies and mission-oriented research critical to the maritime domain.



DR. DUVVURI SESHAGIRI, DIRECTOR, NAVAL PHYSICAL AND OCEANOGRAPHIC LABORATORY (NPOL) DELIVERING THE INAUGURAL ADDRESS

Dr. Deepthi Das Krishna, Head of the Department of Electronics, Dr. Supriya M.H., Chairperson of Sympol 2025, and Mr. Arun A. Balakrishnan, Coordinator of Sympol 2025, addressed the gathering. The proceedings of Sympol 2025 were formally released by Dr. Ananya Sen Gupta, Professor, Department of Electrical and Computer Engineering, University of Iowa, USA.

OPTIQ 2025: International Meet on Optics and Quantum Technology at CUSAT

The International Conference OPTIQ 2025, organised by the School of Photonics, CUSAT, commenced on November 25, 2025, bringing together leading researchers and experts in the fields of optics and quantum technology.

The inaugural ceremony was held with Dr. Duvvuru Seshagiri, Director, NPOL, inaugurating the conference. The function was presided over by Vice-Chancellor Dr. M. Junaid Bushiri, while the keynote address was delivered by Dr. K. Thyagarajan, former Professor, IIT Delhi.



NPOL DIRECTOR DR. DUVVURU SESHAGIRI INAUGURATES OPTIC 2025

The conference featured a comprehensive scientific programme focusing on recent advances in optics and quantum technologies. More than 60 experts from India and abroad delivered invited talks, alongside over 230 paper presentations. The event also included technical sessions by leading companies in the sector, in addition to cultural programmes.

CUSAT School of Legal Studies Hosts Fourth International Conference

The School of Legal Studies organised its Fourth two-day International Conference on the theme Artificial Intelligence and Sustainable Development and Its Influence on Maritime Law.

The conference was inaugurated by Hon'ble High Court Judge Justice Shyam Kumar V. M. Distinguished guests at the inaugural session included Dr. M. Junaid Bushiri, Vice-Chancellor; Shitesh Ranjan, Deputy Director General of Shipping; Shaji P. J., Chief General Manager of Cochin Water Metro; Dr. Mini S., NUALS Professor; and Advocate Joy Thattil. The event brought together law students and academicians from across the country to deliberate on contemporary issues concerning oceans and humanity.



CUSAT Organises Entrepreneurial Training on Safe Diversified Seafood Products



CUSAT, through its Centre of Excellence for Food Innovations and Startup Hubs under the School of Industrial Fisheries, organised a one-day Entrepreneurial Training Programme on Safe Diversified Seafood Products for Identified Beneficiaries of Climate Resilient Coastal Fishermen Villages on July 12, 2025 at Njarakkal, Vypin.

The programme was conducted with the support of the National Bank for Agriculture and Rural Development, in association with the Fisheries Development Forum and the Ernakulam Social Service Society.

The training programme was formally inaugurated by Bini Raju Kolencherry, President, Njarakkal Panchayat. Dr. Ginson Joseph, Director, Centre of Excellence for Food Innovations and Startup Hubs, CUSAT, delivered the welcome address. The inaugural session was presided over by Ajeesh Balu, District Development Manager, National Bank for Agriculture and Rural Development, Ernakulam, while Reverend Father Antony Sijan, Director, Ernakulam Social Service Society, offered felicitations.

Designed to empower beneficiaries from Climate Resilient Coastal Fishermen Villages, the programme focused on strengthening entrepreneurial skills in the preparation of safe, hygienic, and value-added seafood products. The training saw active participation from women entrepreneurs from fishing communities, highlighting their growing role in seafood processing and value addition.

The sessions addressed key aspects such as hygienic handling of seafood, product diversification, packaging techniques, and marketing strategies, with an emphasis on food safety, sustainable livelihoods, and the creation of micro-enterprise opportunities in coastal regions.

As part of the programme, NABARD Foundation Day was also observed, acknowledging the institution's significant contributions to rural development, sustainable fisheries, and enterprise promotion across the country.

A Five-Day DGQA Training Programme on Rubber Technology Conducted at CUSAT

A five-day DGQA training programme on Rubber Technology was conducted at the Department of Polymer Science and Rubber Technology and inaugurated by Dr. Sabu Thomas, Former Vice-Chancellor of Mahatma Gandhi University, Kottayam. The programme was presided over by Dr. Arun A. U., Registrar, CUSAT.

The training covered topics such as polymer technology, rubber compounding and processing, smart manufacturing, quality measurement of rubber materials, and frontier areas of rubber technology and allied materials. Sessions were led by experienced professionals from both academia and industry. In addition to classroom sessions, participants undertook industrial visits to Apollo Tyres and Rubtex to gain practical exposure to rubber manufacturing processes. The programme was designed to bridge the gap between theoretical knowledge and practical application, with a special focus on the role of advanced material technology in the defence sector.

The inauguration was attended by Dr. Prasanth Raghavan, Head of the Department and CUSAT Syndicate Member; Dr. Sreejith P. S., Syndicate Member and Dean of Technologies; and Dr. Jinu Jacob George, Department of Polymer Science and Rubber Technology.

Speaking on the occasion, Dr. Prasanth Raghavan highlighted that the initiative aligned with the Prime Minister's vision to strengthen the country's defence capabilities through advancements in materials science, technology, and smart manufacturing.



DR. SABU THOMAS, FORMER VICE-CHANCELLOR OF MAHATMA GANDHI UNIVERSITY INAUGURATING FIVE-DAY DGQA TRAINING PROGRAMME

ത്രിദിന വോയിസ് ട്രെയിനിംഗ് ശില്പശാല സംഘടിപ്പിച്ചു

കുസാറ്റിൽ യുവജനക്ഷേമ വകുപ്പിന്റെ നേതൃത്വത്തിൽ ത്രിദിന വോയിസ് ട്രെയിനിംഗ് ശില്പശാല 2025 ആഗസ്റ്റ് 23ന് സംഘടിപ്പിച്ചു. ദി ആർട്ട് ഓഫ് സിംഗിങ്ങ് – വോക്കൽ പെഡഗോജി എന്ന വിഷയത്തിൽ പ്രശസ്ത വോയിസ് ട്രെയിനർ, നെറ്റ്ഫ്ലിക്സ് മ്യൂസിക് ക്രിയേഷൻസ് ആൻഡ് പ്രൊഡക്ഷൻ കോഓർഡിനേറ്റർ ഡോ. ലിജോ കെ. ജോസ് പരിപാടി നയിച്ചു. ശില്പശാലയിൽ കുസാറ്റ് വിദ്യാർഥികൾക്കും കേരളത്തിലെ പ്രശസ്ത സംഗീതജ്ഞർക്കും പങ്കെടുക്കാൻ അവസരം ലഭിച്ചു. പങ്കെടുക്കുന്നവർക്ക് വോക്കൽ സാങ്കേതിക വിദ്യകളും, സംഗീത പ്രകടന കഴിവുകളും പരിശീലിപ്പിക്കുകയും പ്രായോഗിക അറിവ് നൽകുകയും ചെയ്തു.



ഡോ. ലിജോ കെ. ജോസ് ശില്പശാല നയിക്കുന്നു.

കൊച്ചി സർവ്വകലാശാലയിൽ കോറിയോഗ്രാഫി ശില്പശാല സംഘടിപ്പിച്ചു



രഞ്ജിനി കുഞ്ചു ശില്പശാല നയിക്കുന്നു

കുസാറ്റിലെ യുവജനക്ഷേമ വകുപ്പിന്റെ കീഴിൽ, സർവ്വകലാശാല വിദ്യാർത്ഥികൾക്കായി ദി ആർട്ട് ഓഫ് മൂവിങ് – കോറിയോഗ്രാഫി ഇൻറ്റൻസീവ് എന്ന ത്രിദിന സമകാലിക ഡാൻസ് ശില്പശാല 2025 സെപ്റ്റംബർ 13ന് സംഘടിപ്പിച്ചു. സിനിമാ താരവും നർത്തകിയും, ക്ഷേത്ര വിസ്ഡം ഓഫ് ആർട്ട് ക്രിയേറ്റീവ് ഡയറക്ടറും ആയ രഞ്ജിനി കുഞ്ചു ശില്പശാല നയിച്ചു. ആധുനിക നൃത്തത്തിന്റെ വിവിധ തലങ്ങളിലെ പരിശീലനത്തോടൊപ്പം സമകാലിക നൃത്തത്തിലെ ചലനം, പ്രകടനം, നൃത്തസംവിധാനങ്ങൾ എന്നിവയിൽ വിദ്യാർത്ഥികൾക്ക് കൂടുതൽ അറിവും പ്രായോഗിക പരിചയവും നൽകി.

ദി ആർട്ട് ഓഫ് ആക്റ്റിംഗ് ആക്ടർ ട്രെയിനിംഗ് ശില്പശാല

കുസാറ്റ് യുവജനക്ഷേമ വകുപ്പ് The Art of Acting – Actor Training ശില്പശാല 2025 സെപ്റ്റംബർ 20ന് സംഘടിപ്പിച്ചു. ലോകപ്രശസ്ത തീയേറ്റർ ട്രെയിനർ, തൃശ്ശൂർ സ്കൂൾ ഓഫ് ഡ്രാമ ഡയറക്ടർ ഡോ. അഭിലാഷ് പിള്ള, നാഷണൽ സ്കൂൾ ഓഫ് ഡ്രാമ ട്രെയിനർ ജിൽമിൽ ഹസാരിക എന്നിവർ ശില്പശാലയ്ക്ക് നേതൃത്വം നൽകി.

ശില്പശാലയിലെ സെഷനുകൾ The Trans formations of an Actor in the Science of Acting" എന്ന വിഷയത്തെ അടിസ്ഥാനമാക്കി നടന്റെ ശരീരം, ശബ്ദം, മനസ്സ്, അനുഭവങ്ങൾ, വികാരങ്ങൾ എന്നിവയിൽ ശ്രദ്ധ കേന്ദ്രീകരിച്ചു.



തൃശ്ശൂർ സ്കൂൾ ഓഫ് ഡ്രാമ ഡയറക്ടർ ഡോ. അഭിലാഷ് പിള്ള, നാഷണൽ സ്കൂൾ ഓഫ് ഡ്രാമ ട്രെയിനർ ജിൽമിൽ ഹസാരിക എന്നിവർ ശില്പശാല നയിക്കുന്നു

ദി സൗണ്ട് ഓഫ് മ്യൂസിക്: സംഗീത ശില്പശാല

കുസാറ്റ് യുവജനക്ഷേമ വകുപ്പിന്റെ നേതൃത്വത്തിൽ സംഘടിപ്പിച്ച ദി സൗണ്ട് ഓഫ് മ്യൂസിക് എന്ന ത്രിദിന സംഗീത ശില്പശാല പ്രശസ്ത സംഗീത സംവിധായകൻ രാഹുൽ രാജ് ഉദ്ഘാടനം ചെയ്തു. ക്യാമ്പസിൽ അക്കാദമിക് സംസ്കാരം രൂപപ്പെടുന്നതിൽ സംഗീതത്തിന് നിർണായക പങ്കുണ്ടെന്നും, സാമൂഹ്യ-ബൗദ്ധിക വികാസത്തിന്റെ ശാസ്ത്രീയമായൊരു മാർഗമാണ് സംഗീതമെന്നും അദ്ദേഹം അഭിപ്രായപ്പെട്ടു.

ഹിന്ദി വകുപ്പ് ഓഡിറ്റോറിയത്തിൽ നടന്ന ഉദ്ഘാടന ചടങ്ങിൽ യുവജനക്ഷേമ വകുപ്പ് ഡയറക്ടർ ഡോ. പി. കെ. ബേബി, ശില്പശാല ഡയറക്ടർ സജ്ന സുധീർ, ഡോ. അമ്പാട്ട് വിജയകുമാർ, ചാരു ഹരിഹരൻ എന്നിവർ സംസാരിച്ചു.

തുടർന്ന് സംസ്ഥാന അവാർഡ് ജേതാവും സംഗീത സംവിധായകനുമായ ബേണി, പ്രശസ്ത സംഗീത ജ്ഞയും മൃദംഗ വാദകയുമായ ചാരു ഹരിഹരൻ എന്നിവർ വിവിധ സെഷനുകൾക്ക് നേതൃത്വം നൽകി. സംഗീത ത്തിന്റെ വിവിധ തലങ്ങളായ വോക്കൽ, ഇൻസ്ട്രുമെന്റൽ, ക്ലാസിക്കൽ എന്നിവയ്ക്കുപുറമേ പാട്ട് റെക്കോർഡിങ്ങുമായി ബന്ധപ്പെട്ട സാങ്കേതിക പരിശീലനം ഉൾപ്പെടെയുള്ള വിഷയങ്ങളിലാണ് സെഷനുകൾ സംഘടിപ്പിച്ചത്.

മൈ സ്റ്റുഡിയോ സി.ഇ.ഒയും സംഗീത സംവിധായകനുമായ ഹരിശങ്കർ വി, തിരുവനന്തപുരം വിമൻസ് കോളേജ് സംഗീത വിഭാഗം അധ്യാപകരും



സംഗീത സംവിധായകൻ രാഹുൽ രാജ് ശില്പശാല ഉദ്ഘാടനം ചെയ്ത് സംസാരിക്കുന്നു

സംഗീതജ്ഞരുമായ ഡോ. ധനലക്ഷ്മി, സജ്ന സുധീർ, വയലിനിസ്റ്റ് വിവേക്, മൃദംഗ വാദകൻ ബെല്ലിക്കോത്ത് രാജീവ് ഗോപാൽ എന്നിവർ ശില്പശാലയിലെ വിവിധ സെഷനുകൾ നയിച്ചു.

സി ആർ സി എഫ് വി ഗ്രാമങ്ങളിലെ ഗുണഭോക്താക്കൾക്കായി ഏകദിന സംരംഭക പരിശീലനം

CRCFV (Climate Resilient Coastal Fishermen Villages) പദ്ധതിയുടെ ഭാഗമായി കുസാറ്റ് സെന്റർ ഓഫ് എക്സലൻസ് ഫോർ ഫുഡ് ഇന്നൊവേഷൻസ് ആൻഡ് സ്റ്റാർട്ടപ്പ് ഹബ്സ് (CEFISH), സ്കൂൾ ഓഫ് ഇൻഡസ്ട്രിയൽ ഫിഷറീസ് വഴി നബാർഡ് പിന്തുണയോടെയും ഫിഷറീസ് ഡെവലപ്മെന്റ് ഫോറം, ESSS എന്നിവയുടെ സഹകരണത്തോടെയും ഏകദിന സംരംഭക പരിശീലന പരിപാടി 2025 ആഗസ്റ്റ് 11ന് ഞാറക്കൽ, വൈപ്പിൻ മേഖലയിൽ സംഘടിപ്പിച്ചു.

പരിപാടിയുടെ ഉദ്ഘാടനം വൈപ്പിൻ ബ്ലോക്ക് പഞ്ചായത്ത് വൈസ് പ്രസിഡന്റ് കെ. എ. സാജിത് നിർവഹിച്ചു. CE-FISH ഡയറക്ടർ ഡോ. ജിൻസൻ ജോസഫ്, നബാർഡ് എറണാകുളം ജില്ലാ ഡെവലപ്മെന്റ് മാനേജർ അജീഷ് ബാലു എന്നിവർ ചടങ്ങിൽ പങ്കെടുത്തു.

CRCFV പദ്ധതിയുടെ ഗുണഭോക്താക്കളായ മത്സ്യത്തൊഴിലാളികളെ മൂല്യവർദ്ധിത കടൽമത്സ്യ ഉൽപ്പന്ന നിർമ്മാണത്തിലൂടെ സംരംഭകരാക്കുക എന്നതായിരുന്നു പരിശീലനത്തിന്റെ മുഖ്യലക്ഷ്യം. മത്സ്യസംസ്കരണത്തിലും മൂല്യവർദ്ധിത ഉൽപ്പന്നങ്ങളുടെ നിർമ്മാണത്തിലും വനിതകൾ സജീവ പങ്കാളിത്തം വഹിച്ചു.

പരിശീലന സെഷനുകളിൽ ശുചിത്വമുള്ള പ്രോസസ്സിംഗ് രീതികൾ, മൂല്യവർദ്ധിത ഉൽപ്പന്നങ്ങളുടെ പാക്കേജിംഗ്, വിപണന തന്ത്രങ്ങൾ തുടങ്ങിയ വിഷയങ്ങൾ ഉൾപ്പെടുത്തി. തീരദേശ സമൂഹങ്ങളിൽ



ഭക്ഷ്യസുരക്ഷാ മാനദണ്ഡങ്ങൾ പ്രോത്സാഹിപ്പിക്കുക, സ്ഥിരവരുമാനം സൃഷ്ടിക്കുക, സുസ്ഥിര സംരംഭകത്വം വളർത്തുക എന്നീ ലക്ഷ്യങ്ങളോടെയാണ് പരിപാടി സംഘടിപ്പിച്ചത്.

ശുചിത്വ സമുദ്രം, സുരക്ഷിത തീരം: ഫോർട്ട്കൊച്ചി ബീച്ച് ശുചീകരിച്ചു

അന്താരാഷ്ട്ര സമുദ്രതീര ശുചീകരണ ദിനത്തോടനുബന്ധിച്ച് 2025 സെപ്റ്റംബറിൽ കുസാറ്റ് വിദ്യാർത്ഥികൾ ഫോർട്ട്കൊച്ചി ബീച്ച് ശുചീകരണത്തിൽ പങ്കെടുത്തു. മറൈൻ ബയോളജി, മൈക്രോ ബയോളജി, ബയോകെമിസ്ട്രി വകുപ്പിന്റെ നേതൃത്വത്തിലാണ് പരിപാടി സംഘടിപ്പിച്ചത്. കേന്ദ്ര ഭൗമശാസ്ത്ര മന്ത്രാലയത്തിന് കീഴിലുള്ള നാഷണൽ സെന്റർ ഫോർ കോസ്റ്റൽ റിസർച്ച് (NCCR) പരിപാടിക്ക് പിന്തുണ നൽകി.

HCL-ടെക്, കുസാറ്റ് NSS യൂണിറ്റ്, തേവര സേക്രഡ് ഹാർട്ട് കോളേജ് NSS യൂണിറ്റ്, സെന്റ് ആൽബർട്ട് കോളേജ്, മാലിയങ്കര SNM കോളേജ് എന്നിവിടങ്ങളിൽ നിന്നുള്ള വിദ്യാർത്ഥികളും അധ്യാപകരും പരിപാടിയിൽ പങ്കെടുത്തു. ഒരു ടണ്ണിലധികം മാലിന്യം തരംതിരിച്ചു ശേഖരിച്ച ശേഷം പ്ലാനറ്റ് എർത്ത് എന്ന സംഘടനക്ക് കൈമാറി.

പ്രവർത്തനം രാവിലെ ഏഴ് മുതൽ പത്ത് മണിവരെ നടന്നു. പരിപാടി വാർഡ് കൗൺസിലർ അഡ്വ. ആന്റണി കുരീത്തറ ഉദ്ഘാടനം ചെയ്തു. പരിപാടിയിൽ സ്കൂൾ ഓഫ് മറൈൻ സയൻസസ് ഡയറക്ടർ ഡോ. കെ. സതീശൻ അധ്യക്ഷത വഹിച്ചു. ഡോ. എസ്. വേണു, ഡോ. പ്രിയജ, ഡോ. മുഹമ്മദ് നൂഹ് നസീർ, റിട്ട. പ്രൊഫസർ ഡോ. മുഹമ്മദ് ഹാത്ത എന്നിവർ



കുസാറ്റ് രജിസ്ട്രാർ ഡോ. അരുൺ എ. യു. വിദ്യാർത്ഥികൾക്ക് സർട്ടിഫിക്കറ്റുകൾ വിതരണം ചെയുന്നു

സംസാരിച്ചു. സമാപന യോഗത്തിൽ കുസാറ്റ് രജിസ്ട്രാർ ഡോ. അരുൺ എ.യു. വിദ്യാർത്ഥികൾക്ക് സർട്ടിഫിക്കറ്റുകൾ വിതരണം ചെയ്തു.

Hindi Day Celebrations held at CUSAT

CUSAT celebrated Hindi Day with a series of cultural programmes and an All Kerala Quiz Competition, organised by the Department of Hindi, Chathra Parishath.

The programme was inaugurated by Dr. Madhusheel Ayilliath, Assistant General Manager, Reserve Bank of India, Kochi, and presided over by Chathra Parishath President Nandu Murali. Dr. P. Praneeth, Head of the Department, Surya V.K., Secretary of the Alumni Association, and Maria Sonia V.S., Joint Executive, also addressed the gathering.

The celebrations concluded with the distribution of prizes to the winners of the quiz and other competitions, fostering enthusiasm and appreciation for the Hindi language among students.



DR. MADHUSHEEL AYILLIATH, ASSISTANT GENERAL MANAGER, RESERVE BANK OF INDIA, KOCHI INAUGURATING THE EVENT

World Ozone Day Celebrated at CUSAT

CUSAT in association with the Kerala State Council for Science, Technology and Environment (KSCSTE), celebrated World Ozone Day at the Department of Physics Auditorium, CUSAT on September 17, 2025. The event was jointly coordinated by the Sophisticated Test and Instrumentation Centre (STIC), Department of Physics, and the School of Environmental Studies.

Dr. M. Junaid Bushiri, Vice Chancellor, CUSAT, inaugurated the programme and highlighted the urgent need for collective action to safeguard the ozone layer for a sustainable future. He emphasised the importance of research, innovation, and awareness in tackling environmental challenges.

Dr. Harinarayanan, Senior Principal Scientist, KSCSTE, delivered the keynote address, outlining the significance of ozone layer protection and the pivotal role of students and researchers in promoting sustainable environmental practices.



VICE CHANCELLOR DR. M JUNAID BUSHIRI ADDRESSING THE INAUGURAL CEREMONY

During the technical sessions, Dr. Manoj M. G., Scientist, Advanced Centre for Atmospheric and Radar Research, CUSAT, and Dr. Aravind K., Assistant Professor, S.D. College, Changanassery, engaged participants on the science and societal importance of ozone protection.

The event was attended by Dr. M. Gopalakrishna Pillai, Director, STIC, Dr. Aldrin Antony, Head of the Department of Physics, CUSAT, faculty members, researchers, and students from various departments. The celebrations concluded with a quiz competition, encouraging students to contribute actively towards environmental conservation.

This year's theme, "Global Collaboration for a Sustainable Future", served as a reminder of the power of joint efforts in protecting the planet.

Polar and Ocean Week at CUSAT

CUSAT observed Polar and Ocean Week at the School of Marine Sciences, Lakeside Campus, through a series of academic and outreach activities organised by the NCPOR Centre for Polar and Ocean Sciences, in association with the National Centre for Polar and Ocean Research, Goa, and the Ocean Society of India. The programme was held in October as part of efforts to promote awareness on polar and ocean systems and their global significance.

The inaugural session featured Dr. R. Jyothibabu, Senior Principal Scientist and Scientist-in-Charge of the CSIR–National Institute of Oceanography (NIO), Regional Centre, Kochi. In his keynote address on "Utilising Ocean Science to Preserve Marine Biodiversity," he highlighted the importance of sustainable ocean management and science-driven conservation strategies to protect marine ecosystems.

The event was presided over by Dr. Sunil P. S., Head, Department of Marine Geology and Geophysics. Dr. Sajeevan T. P., Head, Department of Marine Biology, Dr. Priyaja P., and Mrs. Biji Krishnan, Convenor of the programme, also addressed the participants and underlined the relevance of interdisciplinary research in polar and ocean sciences.



DR. R. JYOTHIBABU INAUGURATING POLAR AND OCEAN WEEK

As part of the celebrations, a range of student-centric activities, including a quiz competition, painting competition, and a Polar and Ocean Sciences exhibition, were organised. The events witnessed enthusiastic participation from school, college, and university students, providing a vibrant platform for interaction and learning.

The Polar and Ocean Week celebrations aimed to enhance awareness of the critical role played by polar and ocean ecosystems, the challenges confronting them, and the urgent need for their conservation. The programme offered participants valuable insights into ongoing research initiatives while fostering appreciation for the fragility and importance of these environments.

CUSAT Hosts PNT Lab Workshop

A two-day hands-on workshop on Applied Computer Vision and Machine Learning with Python was organised by the Department of Instrumentation. The newly established Positioning, Navigation, and Timing (PNT) Lab, supported by IITTNiF, was inaugurated by Dr. M. Junaid Bushiri, Vice-Chancellor.

Dr. Arun A. U., Registrar; Dr. Pankaj Sagar, Head of Department; Dr. Suraj Damodaran, Principal Investigator of the PNT Lab; and Tessy Ninan, Assistant Professor, Department of Electronics, addressed the participants, highlighting the opportunities offered by the lab, including student projects and internships.



VICE CHANCELLOR DR. M JUNAID BUSHIRI DELIVERING INAUGURAL ADDRESS

The sessions were led by Dr. K. Venkata Subbareddy from IIT Tirupati. Students from engineering colleges across Kerala actively participated, gaining hands-on experience in cutting-edge applications of computer vision and machine learning.

CUSAT Organised FDP on Drug Discovery in India



VICE CHANCELLOR DR. M JUNAID BUSHIRI INAUGURATING FACULTY DEVELOPMENT PROGRAMME (FDP)

The Department of Biotechnology organised a three-day Faculty Development Programme (FDP) on "Drug Discovery in the Indian Scenario", aimed at creating awareness about recent advancements in drug discovery and development in the country.

The programme was inaugurated by Vice Chancellor Dr. M. Junaid Bushiri, who emphasised the immense potential of India's rich biodiversity as a valuable resource for novel drug discovery. He highlighted the need for interdisciplinary research and innovation to translate this potential into effective therapeutics.

The FDP brought together leading scientists, academicians, and industry experts to deliberate on emerging frontiers in drug discovery. Key focus areas included synthetic therapeutics, antibody engineering, exosome research, immunotherapy, and drug development inspired by traditional medicine systems.

The event was attended by Dr. Parvathi A., Head of the Department of Biotechnology; Dr. Sarita G. Bhat, Senior Professor; Dr. Jomon Sebastian, Convener of the FDP; along with faculty members and scientists from various academic and research institutions.

Full Stack Software Engineering Workshop Conducted at CUSAT



VICE CHANCELLOR DR. M JUNAID BUSHIRI INAUGURATING FULL STACK SOFTWARE ENGINEERING WORKSHOP

Under the supervision of the University Skill Development Hub and with financial support from RUSA 2.0, the Department of Computer Applications organised a five-day workshop on Full Stack Software Engineering in December, 2025.

The workshop was inaugurated by Dr. M. Junaid Bushiri, Vice Chancellor, CUSAT. The inaugural session was presided over by Dr. Vinod P., Head of the Department of Computer Applications. Dr. Arun A. U, Registrar; Dr. Malathi S., Assistant Professor, Department of Computer Applications; Dr. Deepika M. P., Assistant Professor; and Dr. Santhosh Kumar S., Director, University Skill Development Hub, addressed the participants during the session.

Full Stack Software Engineering encompasses all the components required for the complete development of a software application. The technology plays a vital role in the modern software industry, enabling faster and more cost-effective development by integrating both front-end and back-end processes.

ഭരണഭാഷാവാരാഘോഷം 2025

ഭാഷയെ ശാസ്ത്രീയമായും കാണണം: സാഹിത്യകാരൻ എസ്. ഹരീഷ്



എസ്. ഹരീഷ് ഭരണഭാഷാവാരാഘോഷത്തിന്റെ ഉദ്ഘാടന ചടങ്ങിൽ സംസാരിക്കുന്നു

ഭാഷയും ശാസ്ത്രവും തമ്മിലുള്ള ബന്ധം അതീവ ഗൗരവമുള്ളതാണ്. ശാസ്ത്ര വിദ്യാർത്ഥികളേയും അധ്യാപകരേയും സംബന്ധിച്ച് ഭാഷ വെറും ഉപകരണമല്ല, മറിച്ച് അറിവിലേക്കുള്ള വാതിലുമാണ്,' എന്ന് പ്രശസ്ത മലയാള എഴുത്തുകാരൻ എസ്. ഹരീഷ് കുസാറ്റിൽ 2025 നവംബർ 1ന് സംഘടിപ്പിച്ച ഭരണഭാഷാവാരാഘോഷത്തിന്റെ ഉദ്ഘാടന ചടങ്ങിൽ പറഞ്ഞു.

'മനുഷ്യൻ യഥാർത്ഥത്തിൽ മാറിയത് ഭാഷയെ സ്വായത്തമാക്കിയതിനു ശേഷമാണ്. ഒരുകാലത്ത് സാഹിത്യവും തത്ത്വചിന്തയുമായിരുന്നു ജ്ഞാനസമ്പാദനത്തിന്റെ പ്രധാന മാർഗ്ഗങ്ങളെങ്കിൽ ഇന്ന് സമൂഹത്തിലെ മാറ്റങ്ങളും പുരോഗതിയും ശാസ്ത്രത്തിലൂടെയാണ് സംഭവിക്കുന്നത്,' എന്നും അദ്ദേഹം കൂട്ടിച്ചേർത്തു.

ചടങ്ങിൽ കുസാറ്റ് രജിസ്ട്രാർ ഡോ.അരുൺ എ. യു അധ്യക്ഷത വഹിച്ചു. കുസാറ്റ് C-SiS അസിസ്റ്റന്റ് പ്രൊഫസർ ഡോ. അബേഷ് രഘുവരൻ, ഷിപ് ടെക്നോളജി വകുപ്പ് സെക്ഷൻ ഓഫീസർ എസ്. ഹരികുമാർ, കുസാറ്റ് പ്ലാനിംഗ് ആൻഡ് ഡവലപ്മെന്റ് ഓഫീസർ സയ്ദ കെ. എം എന്നിവർ സംസാരിച്ചു.

വാരാഘോഷത്തിന്റെ ഭാഗമായി കുസാറ്റിലെ അഡ്മിനിസ്ട്രേറ്റീവ് ഓഫീസിൽ ഡി.സി ബുക്സിന്റെ ആഭിമുഖ്യത്തിൽ നടക്കുന്ന പുസ്തകോത്സവം രജിസ്ട്രാർ ഡോ. അരുൺ എ. യു ഉദ്ഘാടനം ചെയ്തു. തുടർന്നുള്ള ഒരാഴ്ച സർവകലാശാല വിദ്യാർത്ഥികൾക്കും ജീവനക്കാർക്കുമായി സാഹിത്യ ക്വിസ് തുടങ്ങിയ വിവിധ മത്സരങ്ങൾ നടത്തി.



കുസാറ്റ് അഡ്മിനിസ്ട്രേറ്റീവ് ഓഫീസിൽ ഡി.സി ബുക്സിന്റെ ആഭിമുഖ്യത്തിൽ നടക്കുന്ന പുസ്തകോത്സവം രജിസ്ട്രാർ ഡോ. അരുൺ എ. യു ഉദ്ഘാടനം ചെയ്യുന്നു.

ഓരോ ഭാഷയ്ക്കും അതിന്റേതായ സൗന്ദര്യമുണ്ട്: പ്രിയ എ എസ്



പ്രിയ എ. എസ് ഭരണഭാഷാവാരാഘോഷ സമാപന ചടങ്ങിൽ സംസാരിക്കുന്നു

മലയാളികൾക്ക് മാതൃഭാഷയായ മലയാളത്തോട് ഒരമിതമായ ഭാഷാസ്നേഹമല്ല ഉള്ളതെന്നും മറ്റ് ഭാഷകളേയും സ്വീകരിക്കാനുള്ള മനസ്സ് നമ്മുക്കുണ്ടെന്നും എഴുത്തുകാരി ശ്രീമതി. പ്രിയ എ. എസ് 2025 നവംബർ 7ന് കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാലയിലെ (കുസാറ്റ്) ഭരണഭാഷാവാരാഘോഷ സമാപന ചടങ്ങിൽ പറഞ്ഞു. കൂടാതെ യുവജനങ്ങൾക്കിടയിൽ മലയാളഭാഷാപ്രയോഗം കുറഞ്ഞു വരികയാണെന്നും അതിനുവേണ്ടിയുള്ള നടപടികൾ നാം വീട്ടിൽ നിന്ന് തന്നെ ആരംഭിക്കുകയാണ് വേണ്ടതെന്നും അവർ കൂട്ടിച്ചേർത്തു. ഒരിക്കലും ഭാഷാ സ്നേഹം അമിതമാകരുതെന്നും, എല്ലാ ഭാഷയിലും വാക്കുകൾക്ക് അതിന്റേതായ സൗന്ദര്യം ഉണ്ടെന്നും, ചില വാക്കുകൾക്ക് തത്തുല്യമായിട്ടുള്ള വാക്കുകൾ മറ്റു ഭാഷയിൽ ലഭ്യമാകില്ലെന്നും അവർ കൂട്ടിച്ചേർത്തു.

കുസാറ്റ് വൈസ് ചാൻസലർ ഡോ. എം. ജുനൈദ് ബുഷിരി അധ്യക്ഷത വഹിച്ചു. കുസാറ്റ് രജിസ്ട്രാർ ഡോ.അരുൺ എ യു, കൺട്രോളർ ഓഫ് എക്സാമിനേഷൻസ് ഡോ. എൻ മനോജ്, ഭരണ വിഭാഗം ഡെപ്യൂട്ടി രജിസ്ട്രാർ സുജ സോളമൻ, പബ്ലിക് റിലേഷൻസ് ഓഫീസർ അശ്വതി സത്യൻ എന്നിവർ ചടങ്ങിൽ സംസാരിച്ചു. ഭരണഭാഷാവാരാഘോഷത്തിന്റെ ഭാഗമായി നടത്തിയ മത്സരങ്ങളുടെ സമ്മാനദാനവും ഇതിനോടൊപ്പം നടന്നു.

Eminent Scholar Programme on Atmospheric Science at CUSAT

CUSAT hosted the Eminent Scholar in Residence Programme on Atmospheric Science at the Department of Physics Auditorium in November 2025. The programme was jointly organised by the Department of Physics, the Advanced Centre for Atmospheric Radar Research (ACARR), and the Department of Atmospheric Sciences, with the objective of fostering advanced academic interaction in the field of atmospheric science.

The event was inaugurated by Vice-Chancellor Dr. M. Junaid Bushiri. The Guest of Honour, Dr. S. Suresh Babu, Scientist G and Head of the Aerosol Trace Gases and Radiative Forcing (ATRF) Branch, Space Physics Laboratory (SPL), VSSC–ISRO, delivered the keynote address titled "Aerosols: Tiny Particles, Big Impacts." In his lecture, Dr. Babu highlighted the critical role of atmospheric aerosols in Earth's radiation balance, weather and climate processes, and their increasing relevance in atmospheric research and space applications.

An interactive session titled "Meet the Scholar" followed the formal proceedings, providing students and researchers an opportunity to engage directly with Dr. Suresh Babu. The session encouraged academic discussions and offered insights into emerging research opportunities in atmospheric and space sciences.



DR. S. SURESH BABU DELIVERING THE KEYNOTE ADDRESS

The programme was attended by several senior faculty members, including Dr. Aldrin Antony, Head of the Department of Physics; Dr. Abhilash S., Head of the Department of Atmospheric Sciences and Director of ACARR; and Dr. K. Satheesan, Director, School of Marine Sciences.

ആവാസ വ്യവസ്ഥ നിലനിർത്തണമെങ്കിൽ പരിസ്ഥിതി നില നിൽക്കണം പ്രൊഫ. ഡോ. എം ജുനൈദ് ബുഷിരി

ആവാസ വ്യവസ്ഥ നിലനിർത്തണമെങ്കിൽ പരിസ്ഥിതി നില നിൽക്കണമന്ന് കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല വൈസ് ചാൻസലർ പ്രൊഫ. ഡോ. എം ജുനൈദ് ബുഷിരി. മാതൃഭൂമി സീഡ് പദ്ധതിയുടെ 2024-25 വർഷത്തെ ജില്ലയിലെ മികച്ച സ്കൂളുകൾക്കും വിദ്യാർത്ഥികൾക്കും അധ്യാപകർക്കും ഉള്ള പുരസ്കാരവിതരണം 2025 സെപ്റ്റംബർ 28ന് പത്തടിപ്പാലം പിഡബ്ല്യുഡി റെസ്റ്റ് ഹൗസ് ഓഡിറ്റോറിയത്തിൽ നടന്ന ചടങ്ങൽ ഉദ്ഘാടനം ചെയ്യുകയായിരുന്നു അദ്ദേഹം. കാലാവസ്ഥാവ്യതിയാനം മനുഷ്യസമൂഹം ചെയ്ത പരിസ്ഥിതി വിരുദ്ധ പ്രവർത്തനങ്ങളുടെ ഫലമാണ്. വ്യവസായിക മലിനീകരണവും രാസവസ്തുക്കളുടെ വിനിയോഗവും മൂലം പരിസ്ഥിതിക്ക് ആഘാതം ഏറ്റിട്ടുണ്ടെന്നും അദ്ദേഹം പറഞ്ഞു.

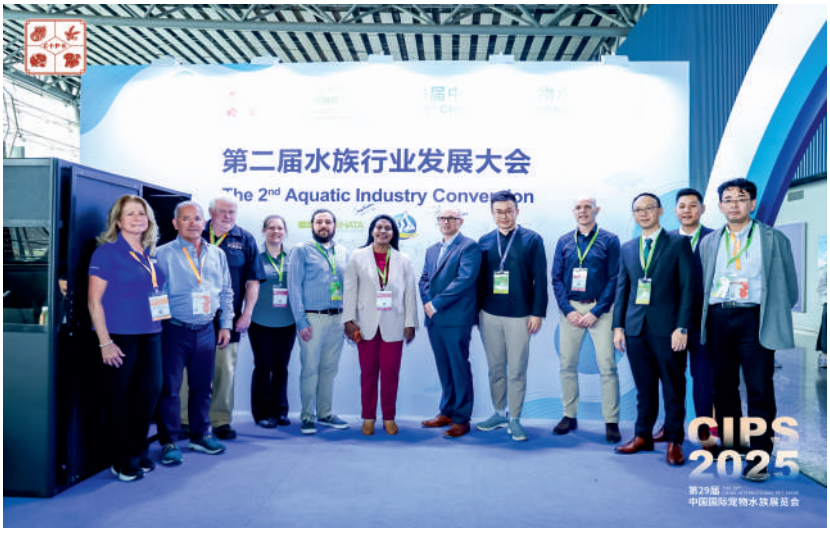
25000 രൂപയും പ്രശസ്തി പത്രവും അടങ്ങുന്ന പുരസ്കാരം ശ്രേഷ്ഠ ഹരിത വിദ്യാലയമായി തിരഞ്ഞെടുക്കപ്പെട്ട എളമക്കര ഭവൻസ് വിദ്യാമന്ദിർ, പ്രൊഫ. ഡോ. എം ജുനൈദ് ബുഷിരിയിൽ നിന്നും ഏറ്റുവാങ്ങി. എറണാകുളം, ആലുവ, കോതമംഗലം, മൂവാറ്റുപുഴ വിദ്യാഭ്യാസ ജില്ലകളിലെ മികച്ച സ്കൂളുകൾക്കും വിദ്യാർത്ഥികൾക്കും അധ്യാപകർക്കും ഉള്ള പുരസ്കാരങ്ങളും വിതരണം ചെയ്തു.

ചടങ്ങിൽ എറണാകുളം ഡെപ്യൂട്ടി ഡയറക്ടർ ഓഫ് എജുക്കേഷൻ സുബിൻ പോൾ, പ്രിൻസിപ്പൽ അഗ്രികൾച്ചറൽ ഓഫീസർ ഇന്ദു പി നായർ, മാതൃഭൂമി സീനിയർ ന്യൂസ് എഡിറ്റർ പ്രകാശ്, മാതൃഭൂമി കൊച്ചി യൂണിറ്റ് മാനേജർ ഐശ്വര്യദാസ്, ഫെഡറൽ ബാങ്ക് സീനിയർ മാനേജർ ആൻഡ് ബ്രാഞ്ച് ഹെഡ് എം.ജി. ദീപു തുടങ്ങിയവർ പരിപാടിയിൽ പങ്കെടുത്തു.



മാതൃഭൂമി ഫെഡറൽ ബാങ്കുമായി സഹകരിച്ച് നടത്തുന്ന സീഡ് പദ്ധതിയുടെ 2024-25 അധ്യയനവർഷത്തെ ജില്ല ശ്രേഷ്ഠ ഹരിത വിദ്യാലയ പുരസ്കാരം നേടിയ എളമക്കര ഭവൻസ് വിദ്യാമന്ദിർ വിദ്യാർത്ഥികളും അധ്യാപകരും ചേർന്ന് കുസാറ്റ് വൈസ് ചാൻസലർ പ്രൊഫ. ഡോ. ഡോക്ടർ എം ജുനൈദ് ബുഷിരിയിൽ നിന്ന് പുരസ്കാരം ഏറ്റുവാങ്ങുന്നു. ഫെഡറൽ ബാങ്ക് സീനിയർ മാനേജർ എം. ജി. ദീപു, ഡെപ്യൂട്ടി ഡയറക്ടർ ഓഫ് എജുക്കേഷൻ സുബിൻ പോൾ പ്രിൻസിപ്പൽ അഗ്രികൾച്ചറൽ ഓഫീസർ ഇന്ദു പി നായർ എന്നിവർ സമീപം.

Faculty Speaks on Indian Aquarium Market at CIPS 2026



DR. MINI SEKHARAN WITH THE SPEAKERS OF AQUATIC INDUSTRY CONVENTION

Dr. Mini Sekharan, Director, School of Industrial Fisheries, participated as an invited speaker at the 2nd Aquatic Industry Convention held as part of the China International Pet Show (CIPS 2026) in Guangzhou, China, in November 2025.

The international convention brought together global leaders, scientists, academicians and industry stakeholders to deliberate on the theme "Potential Through Hard Times: Reform, Innovation, and Aquatic Development under Globalisation and Regionalisation."

Dr. Mini Sekharan delivered a talk in the session titled "Emerging Markets – Focus on Rapidly Growing Regions," where she presented on "The Current Status of the Aquarium Market in India and Potential Import and Export Opportunities." Her presentation was followed by an interactive live panel discussion.

The session examined the world's fastest-growing ornamental aquatic markets, with particular focus on China, Vietnam, Brazil, India and South America. Discussions highlighted key growth drivers such as rising incomes, urbanisation, digital retail platforms and the increasing lifestyle appeal of aquatics, while also addressing regulatory, logistical and sustainability challenges associated with rapid market expansion. The deliberations aimed to provide strategic insights for stakeholders seeking to engage, invest or lead in these emerging regions.

International Workshop on Marine Bio-Discovery

The two-day international workshop on Advances in Marine Bio-Discovery of Drugs, Pharmaceuticals and Nutraceuticals, organised by the National Centre for Aquatic Animal Health (NCAAH), commenced on November 24, 2025.

Dr. William Gerwick from the Scripps Institution of Oceanography, University of California, San Diego, inaugurated the workshop. Dr. Arun E. U. presided over the inaugural session. Dr. Valsamma Joseph, Director, NCAAH, Emeritus Prof. Dr. I. S. Bright Singh, Prof. Inder Pal Singh from the National Institute of Pharmaceutical Education and Research (NIPER), and Dr. Jayesh Puthumana also addressed the gathering.

The workshop was organised in collaboration with the Scripps Institution of Oceanography, University of California, San Diego, under the SPARC (Scheme for Promotion of Academic and Research Collaboration) programme funded by the Ministry of Education, Government of India.



DR. WILLIAM GERWICK ADDRESSING THE INAUGURAL CEREMONY

The sessions focused on tools, methodologies and protocols in marine bio-discovery and their applications in healthcare, animal husbandry and aquaculture. Researchers, biotechnology experts, marine health professionals, scientists and students from India and abroad participated in the workshop.

Dr. M Junaid Bushiri Inaugurates One Day Workshop

Knowledge, values, attitude, and skills are the four essential competencies a student must acquire by the time they complete their schooling," said Dr. M. Junaid Bushiri while speaking at the inaugural session of the one-day workshop organised by the Kerala State Higher Education Council for university administrative officers on November 22, 2025.

He noted that the true purpose of education could be realised only when not just the teaching community, but the entire university system collectively ensured that students were equipped with these four core competencies before they entered society.



VICE CHANCELLOR DR. M JUNAID BUSHIRI DELIVERING THE INAUGURAL ADDRESS

The workshop discussed major structural and regulatory changes taking place in the higher education sector, including the implementation of the Four-Year Undergraduate Programme (FYUGP), National Credit and Qualification Frameworks, the Academic Bank of Credit, and emerging trends in Outcome-Based Education (OBE) evaluation.

Dr. Rajan Varughese, Member Secretary of the Higher Education Council, presided over the function. Dr. Sasi Gopalan, Syndicate Member, Dr. Arun A.U., Registrar, Dr. N. Manoj, Controller of Examinations, and Harilal, Academic Joint Registrar, also spoke on the occasion.

Viswadarsanam 2025: CUSAT Celebrates Global Cultural Harmony

CUSAT hosted Viswadarsanam 2025, an international cultural immersion programme that celebrated cultural diversity, global friendship and the spirit of international cooperation. The event brought together students and scholars from various countries, reflecting the multicultural ethos of the university in October, 2025.

The programme was inaugurated by S. Gopalakrishnan, IFS, Deputy Director General, Indian Council for Cultural Relations (ICCR) and Joint Secretary, Ministry of External Affairs, Government of India, who delivered the inaugural address.

The event was attended by Dr. M. Junaid Bushiri, Vice-Chancellor, CUSAT; Dr. Arun A. U., Registrar; Dr. Hareesh N. Ramanathan, Director, Office of International Relations (OIR); Pardeep Kumar, Zonal Head (South Zone), ICCR, Bengaluru; Dr. P. K. Baby, Member, Syndicate; and Dr. Sam Thomas, Director, IQAC, along with other dignitaries.

As part of the programme, the Vice-Chancellor formally launched the official website of the Office of International Relations, marking a significant step towards strengthening CUSAT's international engagement and outreach.

The formal session was followed by vibrant cultural performances by international students, who presented traditional music, dance and art forms from their respective countries, highlighting the richness of global cultures and the spirit of unity in diversity on campus.



S. GOPALAKRISHNAN, IFS, DEPUTY DIRECTOR GENERAL, INDIAN COUNCIL FOR CULTURAL RELATIONS (ICCR) AND JOINT SECRETARY, MINISTRY OF EXTERNAL AFFAIRS, GOVERNMENT OF INDIA DELIVERING THE INAUGURAL ADDRESS



INTERNATIONAL STUDENTS OF CUSAT

A special highlight of the event was an ICCR-sponsored Odissi performance by renowned dancer Sandhya Manoj, which captivated the audience. Viswadarsanam 2025 was organised by the Office of International Relations, CUSAT.

Student Training Programme on Research Problem Presentation

The Department of Biotechnology, CUSAT, in association with Samagra Shiksha Kerala, organised a Research Problem Presentation Training Programme under the STREAM Ecosystem Project on November 13, 2025. The programme focused on the theme "Biotechnological Prospects for a Diabetes-Free Future" and aimed at nurturing research aptitude among school students.

The programme was inaugurated by Prof. Dr. V. Sivanandan Achari, Dean, Faculty of Science, CUSAT. Students from various schools under the Block Resource Centre (BRC), Angamaly cluster, participated in the training programme, which was designed to introduce them to research-oriented thinking and scientific presentation skills.

Prof. Dr. A. Parvathy, Head of the Department of Biotechnology; Senior Professor Dr. Sarita G. Bhat; Programme Convenor Dr. Jomon Sebastian; Dr. K. G. Raghu, Former Chief Scientist, CSIR–NIIST, Thiruvananthapuram; and Block Project Coordinator K. N. Shiny addressed the gathering and interacted with the participants.



PROF. DR. V. SIVANANDAN ACHARI, DEAN, FACULTY OF SCIENCE INAUGURATING RESEARCH PROBLEM PRESENTATION TRAINING PROGRAMME

South Zone Inter-University Youth Festival: CUSAT Records Outstanding Performance

CUSAT achieved remarkable success at the 39th South Zone Inter-University Youth Festival organised by the Association of Indian Universities (AIU) in collaboration with the Ministry of Youth Affairs, held at Hindustan University, Chennai. The University secured Third Place overall, Second Place in the Literary category, Third Place in the Music category, and won the prestigious Best Actor Award.

The Best Actor Award was secured by Ajith Narayanan R., an Integrated M.Sc. student from the Department of Mathematics, for his performance as Bhima in the play Mooka Narthakan. Sneha K. S. from the School of Management Studies and Elaina Eldo from the School of Legal Studies won First Place in Hindi Debate, while Manan S. Jain from the School of Engineering secured First Place in Western Instrumental. Abhinand C. O., a first-year Integrated M.Sc. student of Applied Chemistry, won Second Place in Eastern Percussion. The English Debate team comprising Ananth Ram P. (Department of Mathematics) and Nandakumar S. E. (School of Engineering) also secured Second Place.The Skit team, consisting of Milka M. L., Shiva P. Babu (School of Legal Studies), Ajith Narayanan R. (Department of Mathematics), Vivek Vinod (Kaushal Kendra), Amritha K. V. (Department of Marine Geophysics), and Adarsh E. P. (Department of Photonics), secured Second Place.

Diya Anna from the School of Legal Studies won Third Place in Western Solo. The Quiz team comprising Bhanulal (Applied Economics), Gokul Tejas (School of Legal Studies), and Muhammad Ameen (Department of Computer Applications) secured Third Place. The Western Group Song team—Diya Anna, Ganga Kailas (Department of Computer Science), Deva Nandana Pavan, Niranjan V. M., Neelambari S., and Tom P. S. (School of Engineering)—also won Third Place.



CUSAT TEAM

The Folk Orchestra team comprising Ashwini S. (Economics), Aravind G. Kumar, Devadathan T. (Kunjali Marakkar School of Marine Engineering), Ashwath S., Neelambari S., Sangeeth Unnikrishnan, Devasenan R., G. Govardhan, Harikrishnan R., Athul Krishna, S. Agnivesh, and Abhinand C. O. (Centre for Integrated Studies) secured Third Place as well. CUSAT also achieved Fourth Place in several events, including Mimicry, Creative Choreography, Classical Dance, Light Vocal Solo, Indian Group Song, and Classical Vocal Solo.

The CUSAT contingent participated under the leadership of Dr. P. K. Baby, Director of Youth Welfare, with guidance from Dr. Aparna Lakshmanan, Professor, Department of Mathematics, and Mr. Vinod T. J. The festival witnessed the participation of around 1,400 students from 29 universities across Kerala, Tamil Nadu, Telangana, Andhra Pradesh, Puducherry, and Lakshadweep. Winners securing first, second, and third places will represent the South Zone at the National Youth Festival to be held in March.

Vice-Chancellor Dr. M. Junaid Bushiri, Registrar Dr. Arun A. U., Finance Officer P. G. Girish Kumar, Controller of Examinations Dr. Manoj N., and members of the Syndicate congratulated the winners for their outstanding performance and for bringing laurels to the University.

PhD Theses Published from July to December, 2025

CSIR- NIIST

1. **Shahansha Mohammed,** *Advanced Oxidation Processes for Removal of Organic Dyes from Aqueous Solution, Textile Effluent, and Adsorbent Surface,* Dr. Satyajith Vishnu Shukla, 21.08.2025

CSIR- NIO

1. **Anil P,** *Comparative Evaluation of Phytoplankton Characteristics in Major Estuaries and Adjoining Near Shore Waters of the SW Coast of India-A Multidimensional Approach,* DR N V Madhu, 17.10.2025
2. **Arya K S,** *Pathways and Fluxes of Selected Climate-Relevant Trace Gases in the Southeastern Arabian Sea,* Dr. Gireesh Kumar T R, 21.08.2025
3. **Nikki Amachandran,** *Impact of Microplastic Pollution on Benthic Fauna and Its Ecological Implications in Vembanad Lake,* Dr. Abdul Jaleel K U, 18.09.2025

CUCEK

1. **Priya R Krishnan,** *Optimization of Combined Economic Emission Dispatch Problem and Efficient Energy Management System in Smart Grid*, Dr. Josephkutty Jacob, 24.10.2025
2. **Vineetha G R,** *Machine Learning Based Hybrid Algorithms for Solving Dynamic Facility Layout Problems*, Dr. Shiyas C R, 21.07.2025

DEPARTMENT OF APPLIED CHEMISTRY

1. **Amoolya Chandran,** *Chemical Sensors for the Determination of Various Biomarkers and Food Quality Indicators - Electrochemical and Optical Perspectives,* Dr. K Girish Kumar, 14.07.2025
2. **Arun R,** *Mesoporous SBA-15-Based Solid Acid Catalysts for Fine Chemical Synthesis,* Dr. Suja Haridas, 07.07.2025
3. **Athira M P,** *Exploring the Versatile Applications of Mesoporous SBA-15 Across Diverse Fields*, Dr. Suja Haridas, 02.07.2025
4. **Kiran James,** *Synthesis, Characterization and Catalytic Applications of Triazine-Based Catalysts for Various Organic Transformations,* Dr. Manoj N, 28.10.2025

DEPARTMENT OF APPLIED ECONOMICS

1. **Aswathy C,** *Pattern of Intergenerational Occupational Mobility among Scheduled Castes: A Study in Palakkad District, Kerala*, Dr. Manoj P K, 01.12.2025

DEPARTMENT OF BIOTECHNOLOGY

1. **Meera Menon T P,** *Metal Complexed Alginate Nanoparticles as an Adjuvant for Therapeutic Cancer Vaccines,* Dr. Anusha Ashokan, Dr. Ajith Vengellur, 22.08.2025

DEPARTMENT OF CHEMICAL OCEANOGRAPHY

1. **Jyoti Varier,** *Bioprospecting Indigenous Soil Bacteria for Chromium Detoxification in Distinct Environmental Systems*, Dr. Sujatha C H, 19.08.2025
2. **Nisari A R,** *Profiling and Risk Assessment Approach on Environmentally Significant Micropollutants in the Kol Wetland-A Ramsar Site, South India,* Dr. Sujatha C H, 06.10.2025

DEPARTMENT OF COMPUTER APPLICATIONS

1. **Bindhu J S,** *Development of Classification Strategies for Satellite Images,* Dr. Pramod K V, 08.08.2025
2. **Jafseer K T,** *Integrated Approaches for Analyzing Dynamicity in Streaming Data using Statistical and Machine Learning Models*, Dr. Sreekumar A, Dr. Shailesh S, 20.12.2025

DEPARTMENT OF COMPUTER SCIENCE

1. **Anu Maria Sebastian,** *AI Models and Algorithms for Data Imputation and Early Diagnosis of Lung Cancer from Clinical Data,* Dr. David Peter S, 14.08.2025
2. **Jisha Augustine,** *Computational Methods to Identify Potential Biomarkers in Blood for Parkinson's Disease Diagnosis from Multi-omics Data,* Dr. Jereesh A.S., 15.09.2025
3. **Lijin P,** *Design and Development of Deep Learning Techniques for Polyp Segmentation in Colonoscopy Images,* Dr. Madhu S Nair, Dr. G Santhosh Kumar, 07.11.2025
4. **Sheena K S,** *Design and Development of Deep Learning-Based Methods for DNA Sequence Compression and Analysis on Compressed Representations*, Dr. Madhu S Nair, 06.11.2025
5. **Sonia Abraham,** *Intelligent Computational Models for Sensor Based Human Activity Recognition using Deep Learning Techniques,* Dr. Rekha K James, 08.07.2025

DEPARTMENT OF ELECTRONICS

1. **Anilkumar R,** *Development and Characterization of Nanocomposite Materials for Microwave Shielding Applications,* Dr. C K Anandan, Dr. Deepti Das Krishna, 19.12.2025
2. **Midhun M S,** *Robot Trajectory Amenagement under Structured Static Environment using Data-Driven Generative Latent Variable Models,* Dr. James Kurian, 10.07.2025

DEPARTMENT OF HINDI

1. **Neethu U V,** *Samakaleen Hindi Aur Malayalam Cinema Mein Chitrit Queer Samudaay Ka Vishleshnatmak Adhyayan*, Dr. Praneetha P, 15.12.2025
2. **Preethika N,** *Samkaleen Hindi Upanyason Mein Vruddh Jeevan Ki Samasyayen: Ek Adhyayan*, Dr. Aneesh K N, 22.12.2025
3. **Remya Krishnan,** *Visthapan Aur Samakaleen Hindi Kavita: Vikas Ke Vishesh Sandarbh Mein,* Dr. K Ajitha, 02.12.2025
4. **Sonitha S Saraf,** *Benyamin Ke 'Aadujeevitham' Ka Hindi Anuvad Evam Uski Samasyayen,* Dr. K Vanaja, 14.08.2025
5. **Sreena S,** *Samakaleen Pravasi Hindi Kahaniyon Ka Vishleshnatmak Adhyayan,* Dr.Praneetha P, 02.12.2025

DEPARTMENT OF MARINE BIOLOGY, MICROBIOLOGY & BIOCHEMISTRY

1. **Aishwarya,** *Exploring Marine Epibiosis from the Southwest Coast of India with Emphasis on Seaweeds and Zooplankton Hosts,* Dr. K B Padmakumar, 23.09.2025
2. **Aswathy Krishnan,** *Biochemical Characterization of Selected Freshwater Diatoms Under Various Culture Conditions for Prospective Commercial Applications,* Dr. Aneykutty Joseph, 24.11.2025
3. **Dhanya Lenin K L,** *Antimicrobial Peptides in Teleost Fish: Molecular Insights, Expression Dynamics, And In Vivo Validation*, Dr. Swapna P Antony, 19.12.2025
4. **Divya T Babu,** *Marine Actinomycetes as Antimicrobial Agents and Bioremediators for Application in Penaeus Monodon Culture Systems,* Dr. Rosamma Philip, 07.10.2025
5. **Revathy M R,** *Endophytic Fungi Associated with Mangroves and Their Bioactive Potential*, Dr. Rosamma Philip, 30.07.2025
6. **Shahana Kabeer S**, *L-Asparaginase from Arctic Strain Streptomyces Kogangensis SK4: Production, Purification, Characterization and Evaluation of Its Application in Cancer Therapy and Food Industry,* Dr. A A Mohamed Hatha, 08.12.2025
7. **Solly Solomon,** *Metagenomic Exploration of a Glacial-Proximal Sediment Microbiome from Kongsfjorden, Arctic: Unveiling the Microbial Profile, Functional Potential and Prospects for Bioactive Compound Discovery,* Dr. Rosamma Philip, Dr. Chaithanya E R, 18.12.2025
8. **Thasneem T R,** *Microbial Communities in Arabian Sea Sediments: An Insight into Distribution and Enzyme Profiling,* Dr. A A Mohamed Hatha, 08.12.2025

DEPARTMENT OF MATHEMATICS

1. **Ajan K A,** *A Study on Some Applications of Soft Set in Topology, Lattice Theory and Related Topics*, Dr. T P Johnson, 19.08.2025
2. **Alanka Thomas,** *On Group Lattices, Semigroup Lattices and Their Characterizations*, Dr. P G Romeo, 01.12.2025
3. **Sambhu Raj P R,** *An Innovative Approach to Fractional Calculus and Stability Analysis of Generalized Fractional Operators*, Dr. Sasi Gopalan, 07.11.2025
4. **Sarathkumar N S,** *Generalized Locally Toeplitz Operators*, Dr. V B Kirankumar, 12.09.2025
5. **Simi Thomas,** *A Study on Some Variants of Weyl Type Theorems*, Dr. Shery Fernandez, 11.11.2025
6. **Vinaya P C,** *Quantitative and Non-Positive Aspects of Korovkin- Type Approximation*, Dr. V B Kirankumar, 22.10.2025

DEPARTMENT OF PHYSICS

1. **Angelin Abraham,** *Catalyzing Hydrogen Evolution Reaction as a Function of Crystallographic Phases of Tungsten Oxide (WO3) and Strategies to Boost its Intrinsic Activity,* Dr. M Junaid Bushiri, 12.11.2025
2. **Jaya M Soney,** *Development of Ceria-based semiconductor catalysts for UV-induced photocatalytic degradation of Methyl Orange*, Dr. Dhannia T, 01.07.2025
3. **Manosh T M,** *Holographic Dark Energy and Recent Acceleration of the Universe: Insights from Horizon Thermodynamics*, Dr. Titus K Mathew, 23.12.2025
4. **Niranjana J S,** *Novel Synthesis of Multi-layered Graphene/ Fe3o4 Nanocomposite for Electrochemical and Adsorption Applications,* Dr. M Junaid Bushiri, 25.08.2025

DEPARTMENT OF SHIP TECHNOLOGY

1. **Mohanan P R,** *African Vulture with Aquila Optimizer (A V A O) for High Performance Energy Efficient Task Allocation and DB-RNN based Optimum Core Prediction for Multicore Systems,* Dr. Mariamma Chacko, 21.07.2025

DEPARTMENT OF STATISTICS

1. **Divya Kuttenchalil Andrews,** *Some Contributions to Modelling and Analysis of Count Time Series*, Dr. N Balakrishna, 11.12.2025
2. **Muhammed Ahammed E S,** *A Rigorous Exploration of Bilal Distribution Variants and INAR Processes with Associated Quality Control,* Dr. Irshad M R, 19.11.2025
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