

Newsletter

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Digital University Kerala

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Kerala University of Digital Sciences, Innovation and Technology

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DIGITAL UNIVERSITY KERALA

Curating a responsible digital world

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VYUHAM ’26 – National-Level Tech, Management and Cultural Fest

Digital University Kerala successfully organised VYUHAM ’26, a National-Level Tech, Management and Cultural Fest, from 30th October to 01st November 2026 at the Technocity campus, Thiruvananthapuram. Organised by the DUK Student Council, the three-day fest brought together students, innovators and aspiring entrepreneurs to celebrate technology, management, creativity and culture.

The fest featured four major streams – Technology, Management, Cultural and Esports. Major attractions included a 24-hour Hackathon, Capture the Flag (CTF), Project Expo, AI Short Film competition, management games, business quiz, cultural performances, fashion shows and DJ nights. A total prize pool of Rs. 2.51 lakh was added to the competitive spirit.



Special initiatives such as the Mental Health Zone by Zenturitech and the BVET Ability Corner, showcasing handcrafted products by persons with physical disabilities, highlighted the importance of mental well-being, inclusivity and empowerment. Industry partners and sponsors, including dSPACE, IEEE, Reflections and Canara Bank, supported the event through industry interactions and expert engagements.

VYUHAM ’26 provided a vibrant platform for innovation, collaboration, talent development and cultural exchange, reflecting the collective efforts of the Student Council, faculty coordinators, volunteers, participants and the university community.

VYUHAM ’26 – Innovate. Collaborate. Compete. Celebrate.


DAY PASS
REGISTRATION










CDTC and IMPICS Ltd. Sign Non-Disclosure Agreement (NDA) for Digital Theyyam Knowledge, Heritage and Experience Platform

The Centre for Digital Transformation in Culture (CDTC), Kerala University of Digital Sciences, Innovation and Technology, entered into a collaborative arrangement with the Integrated Media Production Industrial Co-operative Society Ltd. (IMPICS Ltd.), Kasaragod, through the signing of a Non-Disclosure Agreement (NDA) on 29th October 2026, in the presence of Prof. Saji Gopinath, Vice Chancellor, DUK. The NDA was signed by Dr. Malu G, Principal Investigator, CDTC, DUK, and Jayan Mangad, the Director, IMPICS Ltd., marking an important institutional step towards the proposed Digital Theyyam Knowledge, Heritage and Experience Platform, aimed at digitally documenting, preserving and disseminating Kerala's rich Theyyam heritage.





A key focus of the initiative is the systematic documentation of individual Theyyam art forms, including their rituals, traditions, performance practices, oral histories and cultural contexts. The initiative brings together cultural documentation expertise and emerging technologies through the secure sharing and curation of photographs, videos, audio recordings, archival resources and textual materials relating to Theyyam traditions. These resources will support research and development in Artificial Intelligence (AI), Computer Vision, Natural Language Processing (NLP) and allied technologies, enabling the development of digital platforms and applications for structured documentation, intelligent content discovery, multimedia exploration and wider public engagement with Theyyam traditions.

The signing ceremony was attended by Dr. Tony Thomas, Prof. Elizabeth Sherly, and Shri Pradeep Kumar K, representing DUK, and Sathyanesan M.V., representing IMPICS Ltd.





Through the collaboration, Digital University Kerala seeks to integrate cultural knowledge with emerging technologies, creating new opportunities for heritage preservation, interdisciplinary research and the responsible digital dissemination of Kerala's living cultural traditions.

Young Investigator Award

Mr. Deepu Kurian, Research Scholar at the School of Electronic Systems and Automation (SoESA) , under the supervision of Prof. Joseph S. Paul, has been awarded the prestigious Young Investigator Award at the 8th Annual Meeting of the Asian Society for Magnetic Resonance in Medicine, held on 17th October 2026, in Kagoshima, Japan.


CERTIFICATE OF EXCELLENCE

YOUNG INVESTIGATOR AWARD

This Certificate is proudly presented to

Mr. Deepu Kurian

in recognition of the outstanding scientific quality and excellence of the research entitled **"Direct Sub-Voxel Diamagnetic Susceptibility Mapping from Multi-Echo GRE Data as a Highly Specific Surrogate for Myelin Water Fraction"** at the 8th **Annual Meeting of the Asian Society of Magnetic Resonance in Medicine (ASMRM)** held jointly with the 54th Annual Meeting of the Japanese Society for Magnetic Resonance in Medicine (JSMRM) in Kagoshima, Japan.

October 17th, 2026
Date

ASMRM

Masaya Takahashi, PhD,
Congress President

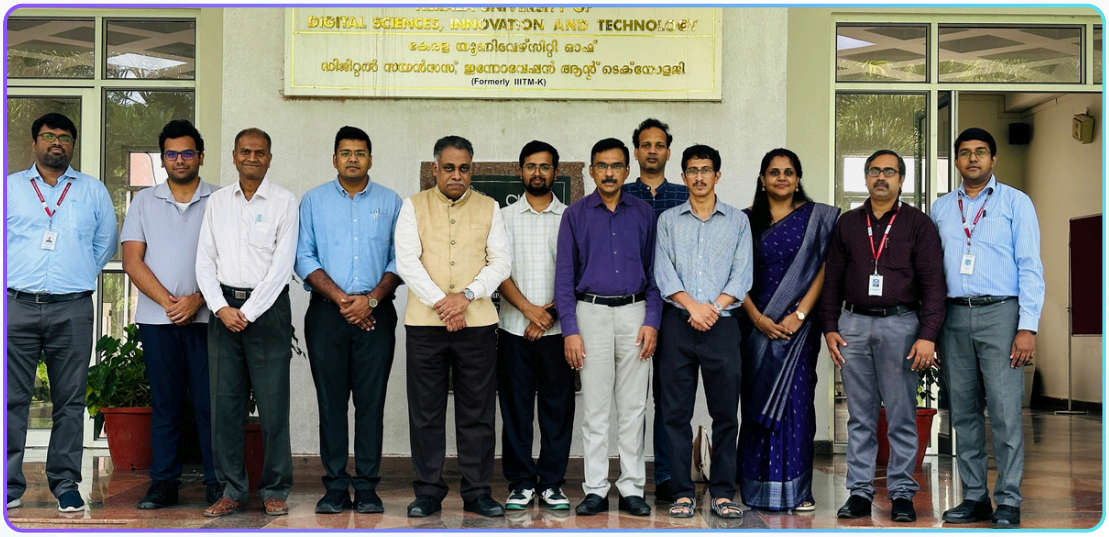
The award was presented in recognition of his research titled "Direct Sub-Voxel Diamagnetic Susceptibility Mapping from Multi-Echo GRE Data as a Highly Specific Surrogate for Myelin Water Fraction." The research introduces an innovative quantitative MRI technique for mapping brain tissue microstructure and assessing myelin content, with potential applications in the investigation of neurological disorders.

Developer Training Program on Data Protection (C-DAC) Bengaluru & MeitY IndiaAI

Jointly Organised by Centre for Development of Advanced Computing (C-DAC) Bengaluru and MeitY IndiaAI Centre of Excellence in Artificial Intelligence, Thiruvananthapuram Keralam (MeitY-IndiaAI CAIK).

The Centre for Development of Advanced Computing (C-DAC) Bengaluru and MeitY IndiaAI Centre of Excellence in Artificial Intelligence, Thiruvananthapuram, Keralam (MeitY-IndiaAI CAIK), at Digital University Kerala jointly conducted a one-day workshop titled “Developer Program on Data Protection” on 28th October 2026 at Digital University Kerala.

The programme witnessed the participation of 130+ participants from diverse sectors, including software developers, government officials, systems architects, security professionals, software engineers, entrepreneurs, founders, research scholars, and other technology stakeholders.



The programme enhanced participants’ understanding of the Digital Personal Data Protection (DPDP) Act, 2023, emphasizing statutory and regulatory obligations, privacy-by-design, notice and consent mechanisms, secure data management, privacy-enhancing technologies, and the implementation of data principal rights and grievance redressal mechanisms to promote the development of secure, privacy-conscious, and compliant digital applications.

The inaugural session featured the Presidential Address by Dr. Saji Gopinath, Vice Chancellor, Digital University Kerala , and the Inaugural Address by Shri Vikash Chourasia, Scientist 'D', Ministry of Electronics and Information Technology (MeitY), Government of India .



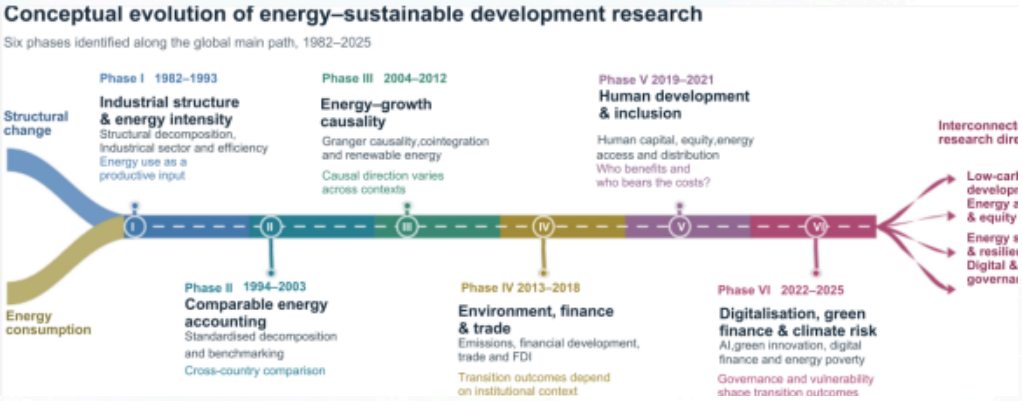
The programme also featured addresses by Dr. S. D. Sudarsan, Executive Director, C-DAC Bengaluru, Dr. Asharaf S, Director, MeitY-IndiaAI CAIK, Digital University Kerala, Dr. A. Mujeeb, Registrar, Digital University Kerala and Mr. Shiv Shankar M S, OSD/CEO, MeitY-IndiaAI CAIK.

The programme featured insightful technical sessions on key aspects of the DPDP Act, 2023, delivered by experts from MeitY, C-DAC Bengaluru and Google:

- DPDP Act, 2023: Overview, Governance and Regulatory Foundations: Dr. Balaji R, Scientist 'F' and Group Head, RISE, C-DAC Bengaluru.
- Translating DPDP into Systems and Privacy by Design: Shri Anoop Kumar Pandey, Scientist 'E', C-DAC Bengaluru.
- Privacy-Enhancing Technologies (PETs): Expert speaker from Google.

The initiative reflects the centre's commitment to strengthening data protection awareness and supporting developers and startups in building privacy conscious products while safeguarding user data.

DUK study maps 45 years of energy research, from economic growth to just transitions





A study tracing how research on energy and development has evolved over 45 years has been accepted in Renewable and Sustainable Energy Reviews, one of the leading journals in the energy field, with an impact factor of 18. The work was carried out by Ms. Shanimol Emerson of the Department of Economics, Government College for Women, Thiruvananthapuram, as an intern at DUK after she received the Aspire Fellowship of the Directorate of Collegiate Education, Government of Kerala.

Energy has long been seen as the engine of economic growth, but how it is produced and shared also shapes health, jobs, the environment and people's opportunities in life. The study shows how research on this relationship has changed. Early work treated energy mainly as an input to industry and asked how closely growth depends on it. Attention then widened to pollution and climate change, renewable energy, and the role of finance, trade and institutions.

Since the Sustainable Development Goals and the Paris Agreement, the focus has turned to whether energy is affordable and reachable for everyone, and to who gains and who pays in the move to clean energy. Digital technologies and artificial intelligence are now opening a new chapter. The authors find that poorer countries, which face the greatest energy needs and climate risks, remain under-studied, and they call for energy transitions that are not only clean but also fair and inclusive.

The paper, "From economic growth to just energy transitions: Main path analysis and thematic evolution of the energy–sustainable development nexus", is now available online at doi.org/10.1016/j.rser.2026.117628.

PGDeG-Officers Submit 11 E-Governance Project Proposals to Kerala Chief Minister

In a significant initiative towards strengthening digital governance in Kerala, 15 government officers undergoing the Post Graduate Diploma in e-Governance (PGDeG) programme, 2025-2026 Batch at Digital University Kerala have submitted a compendium of 11 innovative e-Governance project proposals to the Chief Minister. Titled "Kerala Governance 360: Eleven Initiatives, One Vision," the compendium was presented to the Chief Minister in the presence of DUK Faculty Dr. Ajith Kumar R and Shri Jayachandran M B.



The proposals are the outcome of the academic and practical learning undertaken as part of the PGDeG programme, which aims to equip government officials with advanced knowledge and skills in digital governance, emerging technologies, Government Process Re-engineering (GPR) and project management.

The 15 participants, who are serving officers from various government departments, have developed detailed project reports (DPRs) addressing key governance challenges across diverse sectors, including public finance, senior citizen services, education, employment, forestry, Scheduled Caste development, Legal Metrology, registration and road safety. The proposed initiatives seek to promote transparent, inclusive, proactive and data-driven governance while improving the efficiency, accessibility and delivery of public services.

The programme at Digital University Kerala provides an opportunity for government officers to integrate their administrative experience with emerging technological solutions. Departmental studies, knowledge-sharing sessions and exposure visits to other States have further enriched the participants' understanding of technology-enabled governance.

The participants have requested the Chief Minister's intervention to bring the proposals to the attention of the respective departments and facilitate their consideration, pilot implementation and phased adoption based on feasibility and public value.

They have also expressed their willingness to contribute to the implementation of these initiatives in collaboration with their respective departments and Digital University Kerala. The initiative highlights the potential of capacity-building programmes such as PGDeG in transforming the administrative experience and technological expertise of government officers into practical solutions for better governance.

MBA Rural Immersion Programme

Nineteen MBA students from Digital University Kerala took part in a week-long Rural Immersion Programme from 01st to 07th October 2026. This program is part of their Holistic Development program with 3 academic credits. The students were accompanied by Dr. Sini V Pillai and Dr. Shanujas V., faculty from the School of Digital Humanities and Liberal Arts. The programme, titled "Comparative Rural Enterprise, Plantation Value Chains and Community Institutions in Karnataka," took the batch out of the classroom and into four distinct rural economies: Banakal, Anegundi, Hassan and Kodagu.

The journey began in Thiruvananthapuram and continued to Mangaluru, followed by a road trip through the Western Ghats. Students worked in teams and used semi-structured conversations with farmers, plantation households, and artisans, field visits, institutional interactions, and daily field diaries, followed by group reflections led by the faculty.



Group photograph of MBA students during the Rural Immersion Programme

In Banakal, the team studied coffee-based livelihoods and farmer enterprise. Farmers explained how coffee is grown alongside pepper, arecanut and banana, which gives them more than one source of income and cushions them when prices or yields fall. Discussions on input costs, labour, pricing and market channels brought out the role of intermediaries, who often provide both sales and credit, and the scope for primary processing and direct marketing .

Anegundi, a heritage village, offered a very different picture. Students interacted with artisans and community organisations such as The Kishkinda Trust, and took part in a pottery workshop with local artisans. Comparing the skill and time that go into each piece with the price it fetches made the economics of craft enterprises clear: modest raw-material costs, high labour input and uncertain demand. The team also visited a village school and studied traditional river-based practices through a coracle-based community activity.



(Students interacting with the local community)

In Hassan, the focus shifted to the household economy. Students examined crops, expenditure, labour needs and risks such as price fluctuations, weather and rising input costs. Dairy emerged as a valuable supplementary livelihood, with cooperatives giving small producers a steady buyer and transparent pricing. Interactions with a village school, local NGOs and self-help groups showed how SHGs support financial inclusion and collective livelihood activities. The programme concluded in Kodagu, one of India's best-known coffee regions. The team studied multicropping and traced the coffee value chain from cultivation and harvesting to processing, pricing and market linkages. Producers spoke of how much of the value is captured further along the chain, away from the grower. Conversations also covered labour availability and the migration of younger people.



(Discussion on Rural Development and community engagement)



Comparing the four locations, students found that diversification is the main strategy for managing risk, that value capture often sits outside the village, and that cooperatives, farmer organisations and community institutions visibly improve access to markets, credit and information.

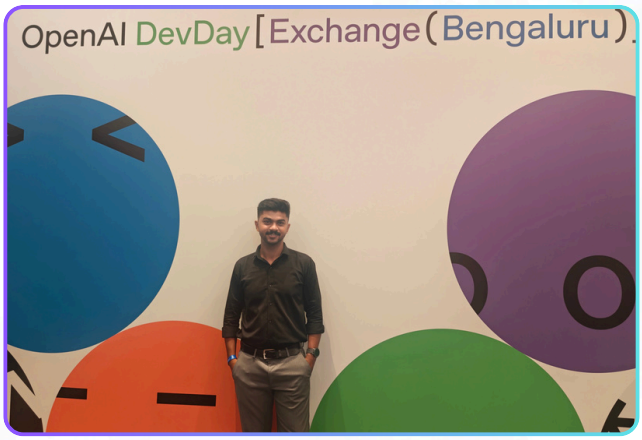
The students opined that the experience made concepts such as value chains, unit economics, risk management and branding far more concrete. They recommended stronger farmer collectives, small-scale value addition, direct marketing through digital platforms and tourism, and design and storytelling support for rural crafts. The immersion ended with the return journey to Thiruvananthapuram. The batch came back with a deeper appreciation of rural communities and a stronger commitment to apply these lessons as future managers.

DUK Student Represents the University at OpenAI DevDay Exchange Bengaluru 2026

Hizan Rahman, a second-year MSc Computer Science with Cybersecurity student at the School of Computer Science and Engineering (SOCSE), Digital University Kerala, represented the university at OpenAI DevDay Exchange Bengaluru 2026, held on 16th October 2026.

Selected from approximately 2 lakh applicants across India, Hizan was among the 500 participants chosen to attend this invitation-only event, the first stop in OpenAI's global DevDay Exchange series.





The event provided an opportunity to engage with emerging developments in artificial intelligence through technical discussions, knowledge-sharing sessions and direct interactions with OpenAI teams. Key areas of focus included building applications using advanced AI models and APIs, the growing role of AI agents, and the use of AI-powered coding tools. Participants also shared their projects, experiences and perspectives on emerging technologies.

OpenAI DevDay Exchange is part of a global initiative extending beyond the flagship DevDay event held in San Francisco, with regional gatherings planned across cities including Tokyo, Seoul, Berlin, Paris, London and São Paulo.

Hizan's participation in this prestigious international event is a significant achievement for Digital University Kerala, reflecting the talent and technical capabilities of its students and providing recognition to the university in the rapidly evolving field of artificial intelligence.

Official publication of "HyperSpectral Processer" QGIS Plugin for Satellite Big Data



Aaron R, a student of MSc Data Science and Geoinformatics, 2025–27, School of Digital Sciences, has developed an open-source QGIS plugin, HyperSpectral Processor, to support the analysis of hyperspectral satellite imagery.

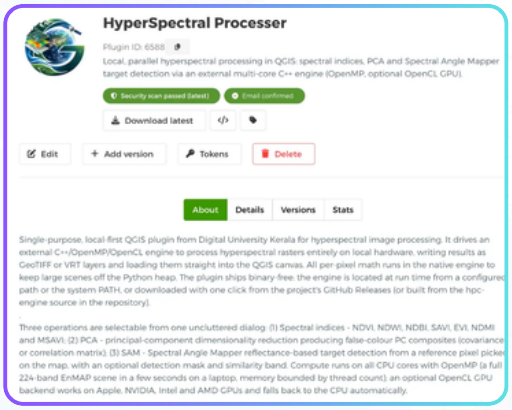
The open-source plugin "HyperSpectral Processer" (v1.0.1) has been officially published on the international QGIS Plugin Repository and has crossed over 1,700+ downloads worldwide.

Spaceborne hyperspectral missions (such as EnMAP and PRISMA) record hundreds of narrow spectral bands per ground pixel, causing conventional desktop GIS tools to run out of memory when processing gigabyte-scale scenes on commodity hardware.

To address this challenge, the project introduces an innovative "local-first", out-of-core architecture that processes gigabyte-scale hyperspectral satellite data entirely on local consumer hardware without cloud dependencies. Driven by a native C++17 engine utilizing OpenMP multi-core parallelism and cross-vendor OpenCL GPU acceleration, the plugin processes scenes in independent tiles. It calculates seven standard spectral indices (NDVI, NDWI, NDBI, SAVI, EVI, NDMI, MSAVI), Principal Component Analysis (PCA) false-colour composites, and Spectral Angle Mapper (SAM) target detection across a full 224-band EnMAP scene in under 2 seconds on a laptop with strictly bounded RAM.

The plugin runs asynchronously inside QGIS to keep the UI responsive, streams results directly to the map canvas, and integrates with Apache Sedona and PySpark for distributed spatial SQL and land-cover classification.

The software has been released under the open-source GPL-2.0 license, and is accompanied by an IEEE-format research paper titled "Out-of-Core, Tile-Parallel Hyperspectral Processing on Commodity Hardware: an OpenMP/OpenCL Engine Integrated with QGIS".

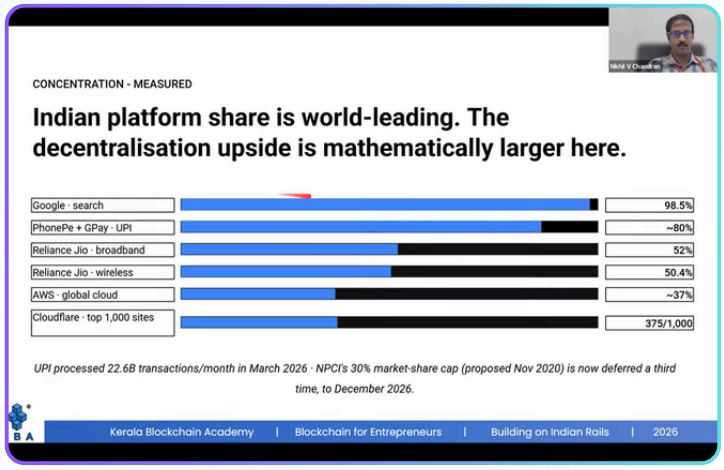


QGIS Plugin:
https://plugins.qgis.org/plugins/hyperspatial_processing/

SourceCode:
https://github.com/aaron43210/HYPERSPECTRAL_DATA_DISTRIBUTED_SYSTEM

KBA Delivers Blockchain and Web3 Training for IIM Lucknow Enterprise Incubation Centre's Cohort 2

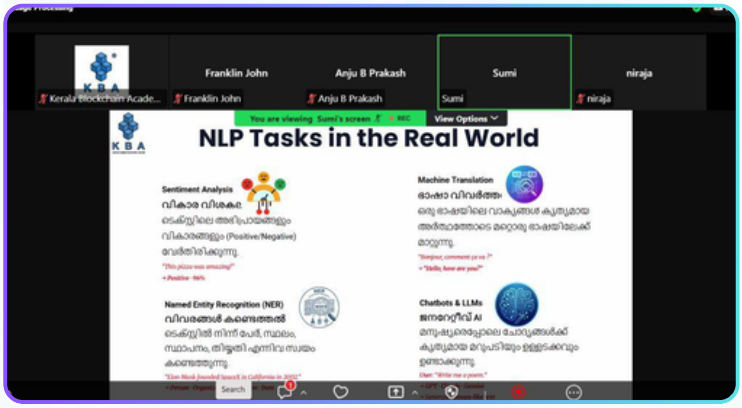
Kerala Blockchain Academy (KBA), as the Knowledge Partner of the IIM Lucknow Enterprise Incubation Centre's Centre of Excellence in Blockchain Technology (IIML-EIC CoE-BT), delivered Cohort 2 of the Blockchain Fundamentals and Web3 for Entrepreneurs programme.



The programme focused on building a strong conceptual and strategic foundation in blockchain technology, Web3 architecture, consensus mechanisms, tokenomics, smart contracts, and distributed ledger systems. Through industry case studies and practical discussions, participants explored blockchain applications across sectors and learned to evaluate potential use cases and identify opportunities to create real business value.

Natural Language Processing Webinar Explores How AI Understands Human Language

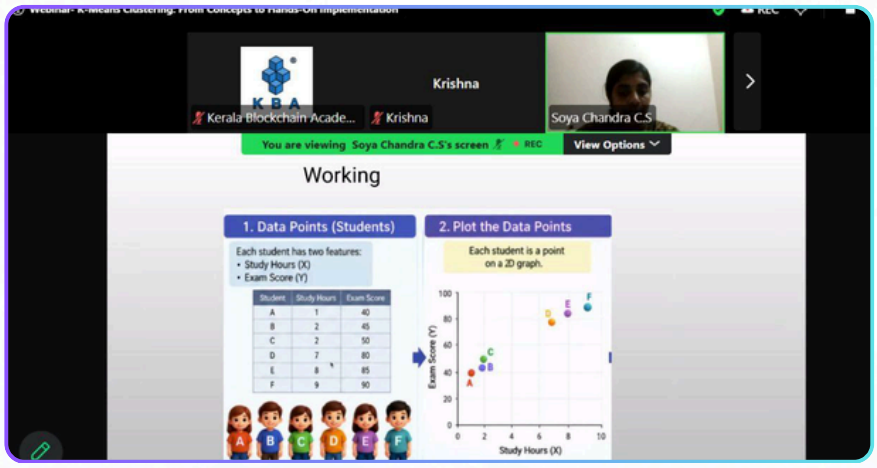
Kerala Blockchain Academy conducted the second session in its webinar series, "Natural Language Processing (NLP)," online on 01st October 2026. Led by Sumi Maria Abraham, R&D Engineer at Kerala Blockchain Academy, the 30-minute session was conducted exclusively in Malayalam.



The webinar explored how machines process and understand human language, covering Sentiment Analysis, Named Entity Recognition, Machine Translation, and Generative AI, with live coding demonstrations illustrating practical applications of NLP.

K-Means Clustering Webinar Explores Patterns in Data

Kerala Blockchain Academy conducted the third session in its webinar series, titled “K-Means Clustering,” online on 7 October 2026. Led by Soya Chandra C S, R&D Engineer at Kerala Blockchain Academy, the 30-minute session was conducted exclusively in Malayalam.



The webinar introduced participants to clustering concepts and explained how the K-Means algorithm groups data based on similarities. It also covered practical implementation, helping participants understand how clustering can be used to identify patterns and derive insights from data.

Logistic Regression Webinar Explores How AI Makes Predictions

Kerala Blockchain Academy conducted the fourth session in its webinar series, “Logistic Regression,” online on 14th October 2026. Led by Lekshmi P G, R&D Engineer at Kerala Blockchain Academy, the session introduced participants to the fundamentals of Logistic Regression and its role in Machine Learning.



Conducted exclusively in Malayalam, the webinar explored why Logistic Regression is used, how the algorithm works, and how it helps machines make predictions by classifying data.

Social Engagement Cell

DigiSafe – Empowering Panchayat Representatives for a Cyber-Safe Community

As part of its DigiSafe – Digital Safety for Everyone initiative, the Social Engagement Centre organised a cybersecurity awareness programme for Panchayat representatives, marking the inauguration of the Mangalapuram Digital Suraksha Grama Panchayat Project. The project was inaugurated by Dr. Saji Gopinath, while Shri Sreechand, Panchayat President, delivered the keynote address. The programme also featured a presentation by the Cyber Police team. Mr. Meraj Uddin, Coordinator, KSAAC, was associated with the programme.



KSAAC team members Sruthi Krishna and Leeba Merin Sam conducted an awareness session highlighting emerging cyber threats, online fraud, and essential digital safety practices. Adding an experiential learning component, Hizan Rahman, a cybersecurity student at Digital University Kerala, facilitated an interactive activity on identifying and understanding phishing scams.










SEC volunteers Muhammed Niyas Muthukad and Amal Madhu supported the programme. Through DigiSafe, SEC seeks to make cybersecurity knowledge accessible and practical, encouraging community members and local governance representatives to become advocates of safe digital practices.

Cyber Jagratha – SafeTech: Promoting Cybersecurity Awareness

The team at the Social Engagement Centre, Digital University Kerala, participated in the launch of Cyber Jagratha – SafeTech, a Kerala Government initiative to strengthen cybersecurity awareness and promote safe digital practices.

The initiative focuses on creating awareness about emerging cyber threats, online fraud, and the responsible use of digital technologies. SEC's participation reflects its continued commitment to extending digital literacy and cybersecurity awareness beyond academic spaces and into wider communities.



Through its engagement with such initiatives, SEC seeks to contribute to the development of a digitally aware society equipped to identify and respond to online risks.

CLICK – Community Participation for a Cyber-Resilient Kerala

The Social Engagement Centre, Digital University Kerala, along with its volunteers, participated in the launch of CLICK (Community Led Initiative for Cyber Resilient Keralam), an initiative of the Kerala Home Department and Kerala Police.

The campaign aims to strengthen cybersecurity awareness through active community participation, with the vision of making Kerala a cyber-resilient state by 2027. It emphasises the importance of collective responsibility in addressing cyber threats and encouraging safe and responsible digital behaviour.





SEC's participation reinforces its commitment to community-based digital literacy, cybersecurity education, and technology-enabled social development. By engaging with initiatives of this nature, the Centre seeks to strengthen the role of community participation in building a safer digital ecosystem.

Institutional Visit to Indian Institute of Creative Technologies (IICT), Mumbai

Dr. Sini V. Pillai, Faculty, School of Digital Humanities and Liberal Arts, and Ms. Vidhu Vincent, Communication Strategist, CDIPD, visited the Indian Institute of Creative Technologies (IICT), Mumbai, to gain an understanding of its orientation towards education and training in the Animation, Visual Effects, Gaming, Comics and Extended Reality (AVGC-XR) sector and to explore potential areas of institutional collaboration.

IICT's focus at the intersection of technology, creativity, media, entertainment, AI and immersive technologies makes it a potentially valuable institutional partner for DUK. The interaction provided a basis for considering how DUK's digital and AI capabilities could complement specialised creative-technology training and industry-oriented learning.





The visit identified potential areas for further discussion rather than a concluded partnership. These include industry-informed curriculum development; short-term certificate and professional programmes; faculty development and masterclasses; student workshops, internships and industry projects; production-based learning and portfolio development; and opportunities to connect with creative-industry practitioners and networks.

The possibility of a Creative Technology/AVGC-XR innovation lab or centre at DUK may also be examined over the longer term.

Talks/ Paper Presentations/Conferences Attended

Paper Presentation at ACRS 2026, New Delhi

Dr. Shamjid P, Assistant Professor, School of Digital Sciences, presented a research paper at the 47th Asian Conference on Remote Sensing (ACRS 2026), held in New Delhi from 12th to 16th October 2026. The conference was organised by the Asian Association on Remote Sensing (AARS) with the Indian Society of Remote Sensing (ISRS) and the Indian Society of Geomatics (ISG).

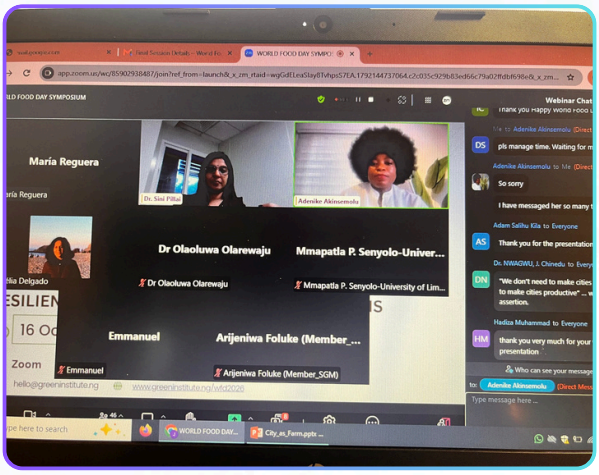




The paper is titled "Sentinel-1 SAR-Based Automated Wet-Snow Detection over Sutlej River Basin, Western Himalayas Using Adaptive Thresholding." Master's students Mohammed Shahid, Surya Kiran and V. A. Sreehari from the Data Science and Geoinformatics programmes did the work under his supervision as their Microwave Remote Sensing course project.

Speaker at the World Food Day Symposium 2026

Dr. Sini V. Pillai delivered a talk at the World Food Day Symposium 2026, organised by The Green Institute in collaboration with the HeTa Research Institute and the University of Birmingham.





Participation In India Game Developer Conference (IGDC) 2026, Chennai

Dr. Sini V. Pillai, Faculty, School of Digital Humanities and Liberal Arts, participated in the India Game Developer Conference (IGDC) 2026, held at Chennai Trade Centre from 28 to 31 October 2026. It provided an opportunity to understand the evolving gaming and creative technology ecosystem, interact with potential industry partners, explore innovative educational models and identify opportunities for industry-academia collaboration.







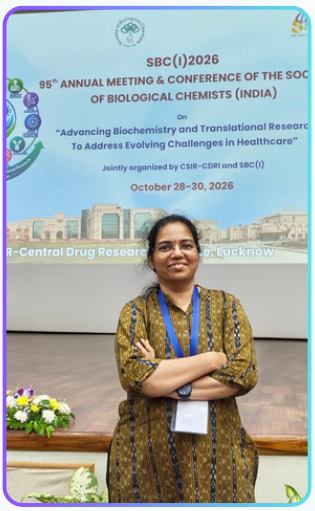


The visit focused particularly on exploring how gaming and immersive technologies are being translated into practical applications, understanding the skill requirements of the industry, and identifying potential collaborators who could contribute to the development of the proposed vertical at DUK.

AIMS Lab Represents Digital University Kerala at the 96th Annual Meeting of the Society of Biological Chemists (India)

Dr. Sherin D.R., faculty member of the School of Digital Sciences (SoDS), Digital University Kerala, represented the AI for Molecular Sciences (AIMS) Lab at the 96th Annual Meeting of the Society of Biological Chemists (India), held at CSIR-Central Drug Research Institute (CDRI), Lucknow, from 28–30 October 2026.

Dr. Sherin presented a research paper titled "AI-Guided Design of Sesquiterpenoids Targeting GPX4 as Potential Ferroptosis Inducers in Triple-Negative Breast Cancer." The presentation highlighted the application of artificial intelligence and computational approaches in designing potential therapeutic candidates for triple-negative breast cancer.





The participation provided an opportunity to showcase the research activities of AIMS Lab, Digital University Kerala, and interact with researchers in the field of biochemical and translational research.

Expert Talk on 'Agentic AI in Research' at the CEWE Orientation Programme

The College of Climate Change and Environmental Science, Kerala Agricultural University, held an expert talk on "Agentic AI in Research" on 24 October 2026, from 2 pm to 4 pm. The session was part of the Climate and Environment Work Experience (CEWE) Orientation Programme for the 2023 batch.

Dr. Aswin V S, Assistant Professor, School of Digital Sciences delivered the talk as an invited speaker. He explained how agentic AI systems can support research work, and his presentation drew enthusiastic engagement from the participants.





The College's Dean has since expressed sincere appreciation for his contribution, noting that the talk enriched the programme and inspired the participants.

AIMS Lab Scholars Present Research at SBC(I) 2026

Three research scholars from the AI for Molecular Sciences (AIMS) Lab, School of Digital Sciences, Digital University Kerala, under the supervision of Dr. Sherin D.R., participated in the 96th Annual Meeting of the Society of Biological Chemists (India), held at CSIR-Central Drug Research Institute (CDRI), Lucknow, from 28–30 October 2026.

The scholars, Vaishnavi A., Akhila A. and Akshara S., presented their research works highlighting the application of machine learning, network pharmacology and molecular modelling in biomedical research.



The research presentations included:

Akhila A.: “Machine Learning-Guided Identification of Dietary Monoterpenoids as Potential mTOR-Targeting Candidates for Neurodegenerative Diseases.”

Akshara S.: “Unraveling the Therapeutic Mechanisms of Tinospora cordifolia in Type 2 Diabetes Mellitus Management: A Network Pharmacology and Molecular Docking Approach.”

Vaishnavi A.: “Machine Learning-Guided Identification of Flavonoid-Based VEGFR2 Inhibitors for Anti-Angiogenic Applications.”

Their participation provided an opportunity to showcase the ongoing research activities of AIMS Lab, interact with researchers and gain exposure to recent developments in biochemical and translational research. The presentations also highlighted the interdisciplinary research efforts of Digital University Kerala at the intersection of artificial intelligence and molecular sciences.

Research Paper Presentation at IEEE IECON 2026, Doha, Qatar



Ms. Smitha Rani, PhD Research Scholar, School of Computer Science and Engineering (SoCSE) attended IEEE IECON 2026 (52nd Annual Conference of the IEEE Industrial Electronics Society) held in Doha, Qatar, where she presented her research paper titled "A Cyber-Physical Risk Assessment Framework for IEC 61850 Substations," authored by Smitha Rani, Dr. Preetam Mukherjee, and Prof. Mathias Ekstedt.

During her visit, she also visited Qatar University and The National University of Malaysia-Qatar, to interact with the academic and research community.

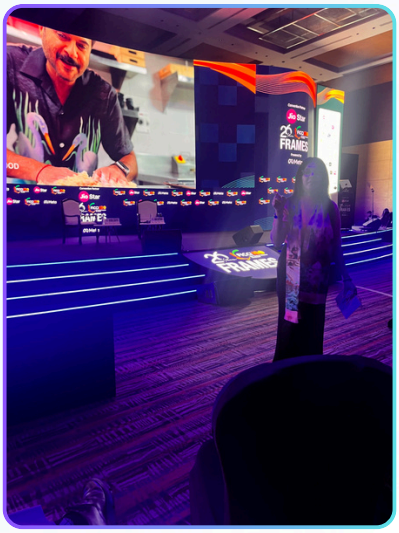
Participation in FICCI FRAMES 2026

Dr. Sini V. Pillai, Faculty, School of Digital Humanities and Liberal Arts, and Vidhu Vincent, Communication Strategist, CDIPD, participated in FICCI FRAMES 2026, held at the Grand Hyatt, Mumbai, on 29 and 30 September 2026.

FICCI FRAMES is a prominent platform for stakeholders in India's Media and Entertainment sector. The 2026 edition was organised around the theme "India's Media Moment: Creating Value in an Age of Infinite Content."

The visit aimed to understand emerging developments across digital content, Artificial Intelligence (AI), immersive technologies and new storytelling formats, while exploring opportunities for DUK to strengthen its engagement with the creative technology and digital media ecosystem.

The event highlighted the convergence of creativity, technology and entertainment. Developments in AI, digital content production, animation, gaming, visual effects, virtual production, extended reality (XR) and interactive storytelling are reshaping the skills required by the Media and Entertainment industry. Traditional boundaries between filmmaking, design, advertising, journalism, gaming and digital content are becoming less distinct.

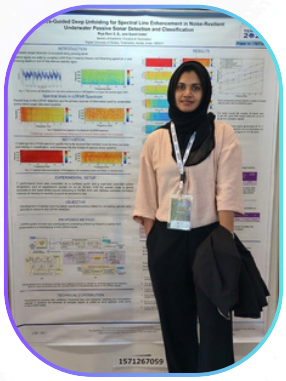




These developments are relevant to DUK's academic strengths in digital technologies, AI, computing and interdisciplinary learning. They point to an opportunity to develop learning pathways that combine technological capability with creativity, storytelling and industry-oriented practice. Engagement with industry stakeholders and specialised institutions can help DUK understand evolving skill requirements and identify opportunities for student exposure, applied projects and professional training.

Recognition @ Conferences

Recognition at IEEE Region 10 Conference (TENCON) 2026, Bali, Indonesia



Ms. Riya Rani S. S., Research Scholar, School of Electronic Systems and Automation (SoESA), presented her research work titled "Physics-Guided Deep Unfolding for Spectral Line Enhancement in Noise-Resilient Underwater Passive Sonar Detection and Classification" at IEEE TENCON 2026, held in Bali, Indonesia.





Her research poster being selected among the Top 10 posters in the IEEE Region 10 (R10) Student Innovation Poster Competition. In recognition of this achievement, the conference organisers awarded her a reimbursement of the conference registration fee amounting to USD 450.

Best Paper Award at ICCMA 2026, Gangtok

Dr. Aswin V S, Faculty, School of Digital Science has received the Best Paper Award at the 2nd International Conference on Computational Mathematics and Applications (ICCMA 2026). The conference was held from 29th to 30th October 2026 at the Lemon Tree Hotel, Gangtok, Sikkim.

The award was presented for his presentation on "GraphSAGE Driven Knowledge Organization of Brain–Computer Interface Research." ICCMA 2026 was jointly organised by NIT Silchar, NIT Nagaland and NIT Sikkim, with Anusandhan National Research Foundation, CSIR and DRDO among the supporting bodies shown on the certificate.




Paper ID: 109

2nd International Conference on Computational Mathematics and Applications

ICCMA 2026

Anusandhan National Research Foundation

jointly organized by

NIT Silchar, NIT Nagaland and NIT Sikkim

October 29 - 30, 2026

Best Paper Award

is presented to

Dr./ Mr./ Ms./ Mrs. *Aswin VS*

an Asst. Professor/ Associate Professor/ Professor/ Scientist/ Research Scholar/ Inspire Fellow/ Industrial Personal/ Postgraduate Student/ Undergraduate Student of *School of Digital Sciences, Kerala University of Digital Sciences, Innovation and Technology, Thiruvananthapuram, Keralam-695317, India*, for his/ her presentation on "*GraphSAGE Driven Knowledge Organization of Brain–Computer Interface Research*" in the 2nd International Conference on Computational Mathematics and Applications, jointly organized by NIT Silchar, NIT Nagaland and NIT Sikkim from 29th October to 30th October 2026 at the Lemon Tree Hotel, Gangtok, Sikkim, India.

We wish the recipient all the best for a successful future ahead.

Dr. Kedar Nath Das
Conference Chair
ICCMA 2026

ICCMA

Prof. Santanu Roy
Convener
ICCMA 2026

The organising team congratulated him on the recognition, which reflects the quality, originality and scholarly contribution of his research work. We extend our warm congratulations to Dr. Aswin on this achievement and wish him continued success in his research.

Journal Articles

Shanimol Emerson and Sindhu S. Nair and **K. Satheesh Kumar.** (2027). From economic growth to just energy transitions: Main path analysis and thematic evolution of the energy–sustainable development nexus. Renewable and Sustainable Energy Reviews, 245, Article 117628. https://doi.org/10.1016/j.rser.2026.117628

Prakash, R., & **Thomas, T**. (2027). A unified framework for behavior-based identification and authentication of avatars and digital twins. Applied Soft Computing, 204, Article 116714. https://doi.org/10.1016/j.asoc.2026.116714

Conference Papers

Chugh, B. K., & **Shamjid, P.** (2026). Deep learning-based flood extent mapping and depth estimation using EOS-04 C-band SAR: A case study of the 2023 Krishna River Basin flood, India. In Proceedings of the 6th International Electronic Conference on Remote Sensing. MDPI. https://sciforum.net/paper/34603

Ananthanarayanan, B., & **Shamjid, P.** (2026). Coherence onset and two-dimensional deformation of landfast sea ice at Cambridge Bay, Nunavut. In Proceedings of the 6th International Electronic Conference on Remote Sensing. MDPI. https://sciforum.net/paper/34580

Shahid, M., Suryakiran, M. S., Sreehari, V. A., & **Shamjid, P.** (2026). Sentinel-1 SAR-based automated wet-snow detection over the Sutlej River Basin, Western Himalayas, using adaptive thresholding on Google Earth Engine. In Proceedings of the 47th Asian Conference on Remote Sensing (ACRS)

Rani, R. S. S., & **Datta, S.** (2026). Physics-guided deep unfolding for spectral line enhancement in noise-resilient underwater passive sonar detection and classification. In Proceedings of the IEEE TENCON 2026, Bali, Indonesia.

Aromal, C. J., & **Datta, S.** (2026). CA-FCSA-Net: Dual-branch curvature-conditioned unrolling for patch-based CS-MRI. In Proceedings of the IEEE TENCON 2026, Bali, Indonesia.

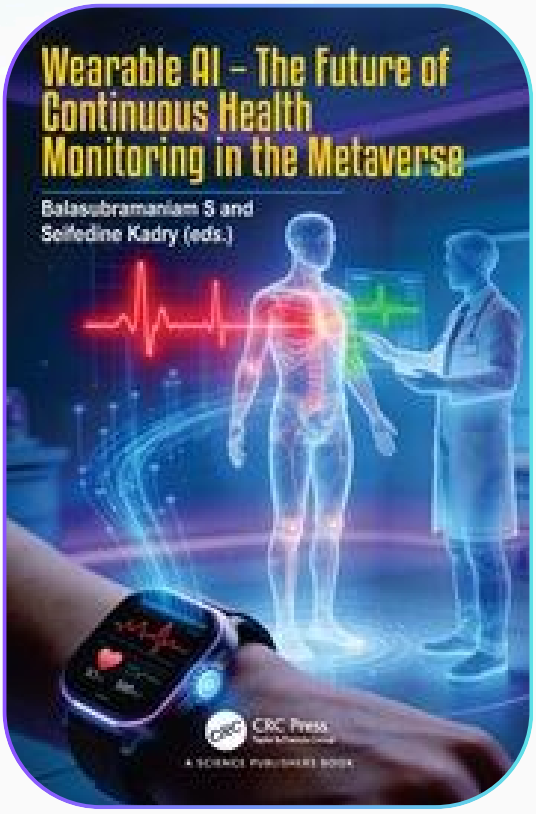
Arun, S., **Athira, K., Jaishanker, R.**, & Sajeev, C. R. (2026, October 12–16). Hyperspectral discrimination of shallow water corals of Agatti Island. In Proceedings of the 47th Asian Conference on Remote Sensing (ACRS 2026), New Delhi, India.

Book Published

Balasubramaniam, S., & Kadry, S. (Eds.). (2026). Wearable AI: The future of continuous health monitoring in the metaverse. CRC Press. https://doi.org/10.1201/9781003776291

ABSTRACT

This book brings together leading scholars, technologists, clinicians, and designers to investigate the scientific foundations, applications, and implications of continuous health monitoring. It delves into breakthroughs in biosensing, neural interfaces, digital twins, and AI-driven analytics that enable real-time physiological and behavioral insights. Through a series of interdisciplinary chapters, it showcases how wearable AI systems integrate seamlessly with metaverse platforms to deliver personalized, preventive, and participatory healthcare experiences. Beyond technological innovation, the volume critically engages with the ethical, regulatory, and social dimensions of this transformation



DIGITAL UNIVERSITY KERALA

Curating a responsible digital world

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