

विद्ययां तन्त्राग्यां अनुवादान

DEPARTMENT OF SCIENCE AND TECHNOLOGY
NITTE UNIVERSITY TECHNOLOGY ENABLING CENTRE



DST NU-TEC Chronicle		June to September 2025	
वार्ता TEC Celebrates <ul style="list-style-type: none"> World Food Safety Day International Girl Child Day Aati Siri MoU between NitteDU & ICAR-DCR Industry-Academia workshop Global Food Regualtors Summit Bluenovathon	2	लाभार्गा वेरइहन Hand Holding Professionals	9
विद्वान इबलभेइहन Expert Lectures <ul style="list-style-type: none"> Dr Debabrata Kanungo Dr Usha Kini 	6	विद्ययां प्राइरान Science Outreach	15
इग्यां इग्योजं 12th Symposium on Diseases in Asian Aquaculture	8	टेक कर्यकरता	16

Celebration of World Food Safety Day 2025



DST TEC in association with Nitte University Centre for Science Education and Research (NUCSER) organized a one-day workshop on the occasion of World Food Safety Day 2025 on 10 June 2025 at 10.30 AM in the University auditorium, Paneer Campus. The theme for this year's food safety day was Food Safety: Science in Action.

Dr Anirban Chakraborty, Director, NUCSER, gave the welcome address and introduced the speakers of the workshop to the gathering.

Dr Iddya Karunasagar, Rtd FAO Senior Officer, Advisor-Research and Patents, Nitte DU, spoke on the scientific basis for international food safety standards. He explained about the scientific risk assessment reports produced by Joint FAO/WHO Expert Committees - Joint Expert Committee on Food Additives (JECFA), Joint Expert Meeting on Microbiological Risk Assessment (JEMRA), Joint Meeting on Pesticide Residues (JMPR). These risk assessments, he stated, form the basis of science based food safety standards set by Codex Alimentarius Commission. He also explained about microbiological sampling plans and compliance testing.

Dr S B Barbuddhe, Director, ICAR- National Meat Research Institute, Hyderabad, enlightened the gathering on the present contours and future scope for advancement in food safety. He highlighted the importance of *Listeria monocytogenes* as a foodborne pathogen and about the repository and culture collection of foodborne pathogens maintained at ICAR-NMRI. He also explained about problems of food authenticity and the technology for detecting any mislabeled food.

Dr Indrani Karunasagar, Director- DST TEC and Projects, Nitte DU, addressed the attendees about the safety of water in food production and processing. She explained about the need for fit-for-purpose water to be made available to primary producing sectors like agricultural fields, fishing boats and fish landing centers. She explained about harmful algal blooms and toxins produced by them that may impact food safety. Her presentation included concepts of food adulteration and food contamination, and ways to minimize and mitigate them.

Following the lectures by the experts, a quiz contest on the topics related to food safety was conducted by Dr Prithvisagar K.S., Project Associate, DST TEC, using the Mentimeter platform. The top 10 performers in quiz contest were ranked and awarded prizes. About 110 participants, including industry representatives from CAMPCO, Kanara Chambers of Commerce and Industry, Dakshin Kannada Cooperative Milk Producers Union, students and staff from St Aloysius (Deemed to be University) and St Agnes College, Nitte Usha Institute of Nursing Science, K S Hegde Medical Academy, Nitte Institute of Professional Education, Nitte University Center for Science Education and Research, and Nitte- GoK-COE AQUAMARIN attended the workshop.

Winners of the Quiz contest:

1. Mr Reddappa KN, Dakshina Kannada Co-Operative Milk Producers Union
2. Ms Dhanyashree Rai, NUCSER
3. Ms Saisree Iyer, NUCSER
4. Dr Akshatha K, NUCSER
5. Dr Nithin M S, Nitte- GoK-COE AQUAMARIN,
6. Ms Sneha Titus, St Aloysius (Deemed to be University)
7. Dr Krishna Kumar B, NUCSER
8. Ms Mahima, St Agnes College (Autonomous)
9. Ms Vanessa Fernandes, NUCSER
10. Mr Anil Kumar SN, Dakshina Kannada Co-Operative Milk Producers Union

International Girl Child Day 2025



Prof. Indrani Karunasagar, Director (Projects & DST TEC), Nitte DU, was invited as the chief guest for the celebration of the International Girl Child Day, 29th September, 2025 at K S Hegde Auditorium. This event was jointly organised by the Sustainable Development Goals Cell, NitteDU Gender Sensitization Cell, NitteDU, and the IQAC, K S Hegde Medical Academy, Mangaluru. The Hon'ble Vice Chancellor of Nitte DU, Prof M S Moodithaya, presided over the function and

urged the youngsters, especially the school girls to draw inspiration from Ms Sindhoora Raja, recipient of the Pradhan Mantri Bal Puraskar, 2024. She was felicitated during this event for inspiring many young minds with her innovative thinking and problem-solving ability. Her innovation of a self-stabilising device for Parkinson's patients and a model that predicts the risk of dementia won her laurels at the National and International level.

MoU between Nitte DU and ICAR Directorate of Cashew Research



An MoU between NitteDU and the ICAR Directorate of Cashew Research (DCR) was signed on June 30, 2025 with the firm commitment to work together in research, training and education and to promote translational activities in collaboration with industry for development of technologies. The ICAR-DCR conducts research in the areas of cashew germplasm conservation, crop development, production, protection, postharvest technology and product value addition, Involving 14 regional centres.

It is the lead centre for Cashew Research and Development and oversees the All-India Coordinated Research Project on Cashew.

Cashew has been identified by DST TEC as an important local crop and discussions with cashew processing industry have led to the identification of a number of problem areas where technological inputs are needed. The collaboration between ICAR-DCR and Nitte DU would enable harnessing each other's strengths and contribute to development of technologies that could lead to better utilization of cashew apple and other by-products of cashew processing industry. The MoU aims to encompass activities such as student internships, training of personnel, assistance in developing projects for funding, joint research projects, lectures, product development, webinars, joint conferences and symposia, and technical information sharing.

The MoU exchange took place in the Board Room of Nitte University between the Registrar, Dr. Harsha Halahalli, and Dr J. Dinakara Adiga, Director, DCR, on 30 June 2025 in the presence of the Hon'ble Vice Chancellor of Nitte DU, Dr M S Moodithaya. Dr Iddya Karunasagar, Advisor, Research and Patent, Dr Indrani Karunasagar, Director Projects and DST TEC, Mr Chethan Chakravarty, Legal Officer, NITTE DU, Dr. Veena and Dr Jyothi, scientists from ICAR-DCR, and staff of DST TEC were present during the exchange ceremony.

Celebration of "AATI SIRI – 2025: Tradition Through the Lens of Science"



The Department of Science & Technology – Technology Enabling Centre (DST-TEC), Nitte (Deemed to be University), in collaboration with St Aloysius (Deemed to be University), Mangalore, organized AATI SIRI – 2025: Tradition Through the Lens of Science on 22 August 2025. The event was hosted by the School of Life Sciences – Department of Food Science and IQAC, St, Aloysius Deemed to be University.

The forenoon session in Eric Mathias Hall featured a Keynote address presided over by Rev. Dr Praveen Martis SJ, Vice Chancellor. Expert talks were delivered by Dr Zenica D'Souza and Mr Adithya Krishna M, followed by concluding remarks from Dr Iddya Karunasagar and Dr Indrani Karunasagar.

The highlights of the afternoon included a Traditional Monsoon Food Competition held at Arrupe Block, where the participants showcased authentic Aati dishes with their nutritional and medicinal relevance appropriate to monsoon season of Dakshin Kannada and Coastal Kerala. The conveners, Ms. Aishwarya M and Mr. Joel P Joseph, Faculty Coordinators, organized the event effectively which concluded with assessment of the competition by a panel of Judges from DST TEC, Nitte DU. Cash prizes were distributed during the valedictory function in the evening.

The following were declared winners of the event:

First place: Harshitha R Salian and Saara Zeeshana- 2nd BSc Food Science, Nutrition & Dietetics

Second Place: Disha DS, Apeksha, and Pranitha Devadas K- 1st BBA

Third Place: Shanvi K and Thanvi Ganesh Kulal- 1st BBA

The programme saw enthusiastic participation from UG and PG students.

Inauguration of an Industry- Academia Workshop at NUCSER



Prof. Dr M S Moodithaya, Hon'ble Vice Chancellor, was invited as the Chief Guest for the inaugural function of the Industry-Academia workshop on 'Three Generations of PCR: Applications in Infectious Diseases Research- hands-on training' held from 6th to 8th August 2025. The workshop aimed to impart hands-on training in PCR and its advanced variants, with a special focus on their applications in infectious disease research. Prof. Dr Indrani Karunasagar was the Guest of Honour. She highlighted the growing importance of rapid, accurate diagnostic tools for infectious diseases, especially amid emerging antimicrobial resistance.

The Global Food Regulators Summit(GFRS) 2025 by FSSAI MoHFW



Prof. Iddya Karunasagar and Prof. Indrani Karunasagar were invited to the GFRS 2025 held during 26-27 September 2025 at the Bharat Mandapam, New Delhi. This event was organized by FSSAI under the Ministry of Health & Family Welfare. More than 70 country representatives and various international organisations participated in the summit to discuss on updating and harmonising food safety standards globally, risk assessment, technological innovations, integrating traditional food practices, and balancing food safety with trade, nutrition and health goals. The summit reinforced India's role as a hub for global food safety regulations and innovation.

Serving as an Esteemed Jury Member for BlueNovathon 2025



Nitte University Centre for Science Education and Research (NUCSER), COE AQUAMARIN in collaboration with the Institution Innovation Council, Nitte (DU), and K-tech, Government of Karnataka, hosted the BlueNovathon-2025, a national level ideathon in marine biotechnology on June 2, 2025. The Hon'ble Vice Chancellor, Prof. Dr. M S Moodithaya inaugurated the competition and appreciated the efforts of COE AQUAMARIN in bringing together aspiring youngsters to pitch their ideas.



The event brought together student startups, and innovators to showcase solutions to the challenges in aquaculture, fisheries, and the marine technology sector.

Prof. Indrani Karunasagar was one of the jury members along with Dr. Ronald DSouza, Mr. Vishwas US, and Mr. Puneeth Rai. The jury members evaluated 16 pitches that were showcased from various institutions of Karnataka, Tamil Nadu, Kerala, and Maharashtra.

Expert lecture by Dr Debabrata Kanungo on 'Diagnosis, treatment and management of accidental poisoning with agrochemicals'



DST TEC, in association with K S Hegde Medical Academy and BASF India Ltd., organized an expert lecture on 3rd July 2025 at Avishkar Hall, 7th floor, A B Shetty Memorial Institute of Dental Sciences, Mangaluru. The chief guest and the resource person of the program was Dr Debabrata Kanungo, Former Additional Director General of the Ministry of Health and Family Welfare, Government of India. Dr Sandeep Rai, Dean, K S Hegde Medical Academy, Nitte DU, presided over the event.

Dr Indrani Karunasagar, Director- DST TEC & Projects, delivered the opening remarks by speaking about the relevance of the topic and welcomed the gathering. Mr Yuvraj Chopra, Country Advocacy Lead, Agri Solutions, BASF India Ltd., addressed the gathering and thanked Dr Kanungo for leading BASF India Ltd to connect with Nitte DU. Ms Gunjan Mehta, Marketing Excellence & Sustainability Lead, Agri Solutions, BASF India Ltd., introduced BASF to the gathering with a presentation and detailed various product sectors in which the company is involved. The farmer connection programme "Hamesha Suraksha" which creates awareness among the users of agricultural pesticides about safe use was the highlight of her presentation.

Dr Iddya Karunasagar, Advisor- Research & Patents, Nitte DU, introduced the contributions of Dr Kanungo in the issues of pesticide use, focusing on how he has been actively involved in policy making, and guiding many government and international organizations such as Joint FAO/WHO Meeting on Pesticide Residues. The president of the event, Dr Sandeep Rai, highlighted the importance of creating awareness among medical professionals about diagnosis and management of accidental pesticide poisoning. Dr. Sudhindra Rao, Head of Department of General Medicine, KSHEMA proposed the vote of thanks.

This was followed by the expert talk by Dr Kanungo, chaired by Dr Sudhindra Rao. Dr Kanungo introduced the topic and outlined the increased prevalence of accidental and occupational exposure to agrochemicals, particularly in agricultural communities. He elaborated on the different classes of agrochemicals, including organophosphates, carbamates, pyrethroids, etc. He detailed the major routes of exposure, such as inhalation, ingestion, and dermal contact, and included several case studies to demonstrate the context in which poisoning typically occurs. He emphasized the importance of early recognition of clinical signs such as nausea, vomiting, sweating, muscle twitching, respiratory distress, and altered mental status following exposure. He discussed differential diagnosis and the use of toxicological history and laboratory investigations for accurate diagnosis.

He advised medical practitioners to work on treating the patient rather than the poison. About 280 participants comprising undergraduate medical students, postgraduates, and practitioners, public health students and faculty attended the expert lecture. The session provided comprehensive insights into the medical, operational, and policy dimensions of managing agrochemical poisoning and proved highly beneficial in enhancing the preparedness and competence of attendees to address this public health concern. This also emphasized the need for multi-sectoral collaboration to improve safety and outcomes in agrochemical handling and exposure of pesticides.

Expert lecture by Dr Usha Kini on HIRSCHSPRUNG'S DISEASE



DST TEC, in association with K S Hegde Medical Academy, organized an expert session titled 'HIRSCHSPRUNG'S DISEASE: Old paths, New directions and moving frontiers' on 21 August 2025 at Chintana Hall, K S Hegde Hospital, Mangaluru. Dr Usha Kini, Professor, St John's National Academy of Health Sciences, St John's Medical College, Bengaluru and President, International Society of Paediatric Pathology delivered an excellent treatise on the topic. Dr Sandeep Rai, Dean, and Professor of Paediatric Surgery, K S Hegde Medical Academy and Hospital, Nitte DU, presided over the event.

Dr Seema Pavaman, Head, Department of Pediatrics, delivered the welcome address, Dr Indrani Karunasagar, Director- DST TEC & Projects, introduced the chief guest to the gathering.

Dr Usha Kini in her talk traced the evolution of understanding and management of Hirschsprung's disease (HD)—from classical descriptions to present-day diagnostics and surgical strategies. The talk emphasized how the integration of pathology and paediatric surgery can reshape outcomes for infants, neonates, and older children with HD. She detailed the classical clinical symptoms of HD, like delayed meconium passage, abdominal distension, bilious vomiting in neonates, chronic constipation, and failure to thrive in late presenters. She also highlighted that rectal biopsy is the gold standard with H&E staining and acetylcholinesterase (AChE) histochemistry. She stressed greater communication between pathologists and paediatric surgeons. Choosing the right site for biopsy was very important and she highlighted the importance of cytological findings that would determine whether the patient needed surgery or otherwise. The expert talk was followed by a discussion with the lead speaker about a few case studies by the clinicians from K S Hegde Medical Academy and other medical colleges in Mangalore.

Dr Aureen Ruby D'Cunha, Associate Professor, Department of Paediatric Surgery, delivered the vote of thanks. About 80 participants, including Healthcare professionals and trainees, attended the impactful session which proved to be highly beneficial in enhancing the preparedness and competence of attendees to address this condition in newborns.

Chairing scientific sessions at the 12th Symposium on Diseases in Asian Aquaculture at Chennai



The 12th Symposium on Diseases in Asian Aquaculture (DAA12), a triennial international conference, was organised by the ICAR–Central Brackishwater Aquaculture (ICAR–CIBA) in Chennai from 23–26 September 2025. The event brought together more than 500 delegates, including 70 international participants, to discuss advances and challenges in aquatic animal health.

Dr. Iddya Karunasagar delivered a keynote lecture on Antimicrobial Resistance and Aquatic Animal Health, highlighting global concerns and strategies for sustainable aquaculture. He also chaired the session on One Health and Aquatic Biosecurity. Dr. Indrani Karunasagar chaired the session on Finfish Health and served as a jury member for the Best Oral and Poster Presentation Awards, recognizing outstanding scientific contributions.

The symposium featured technical sessions, invited lectures, and poster presentations, providing a platform for knowledge exchange and strengthening collaborations in aquatic animal health across Asia.

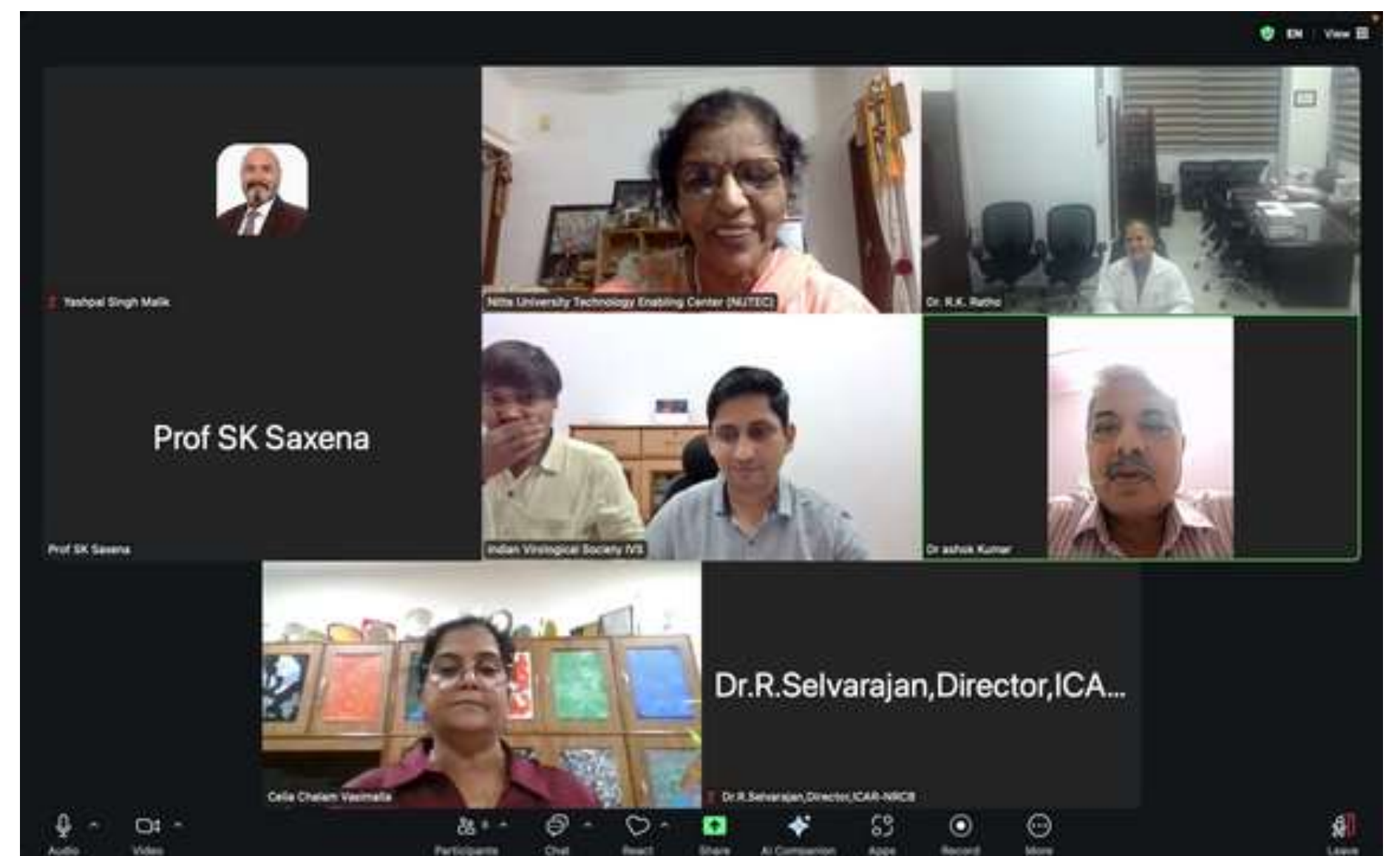
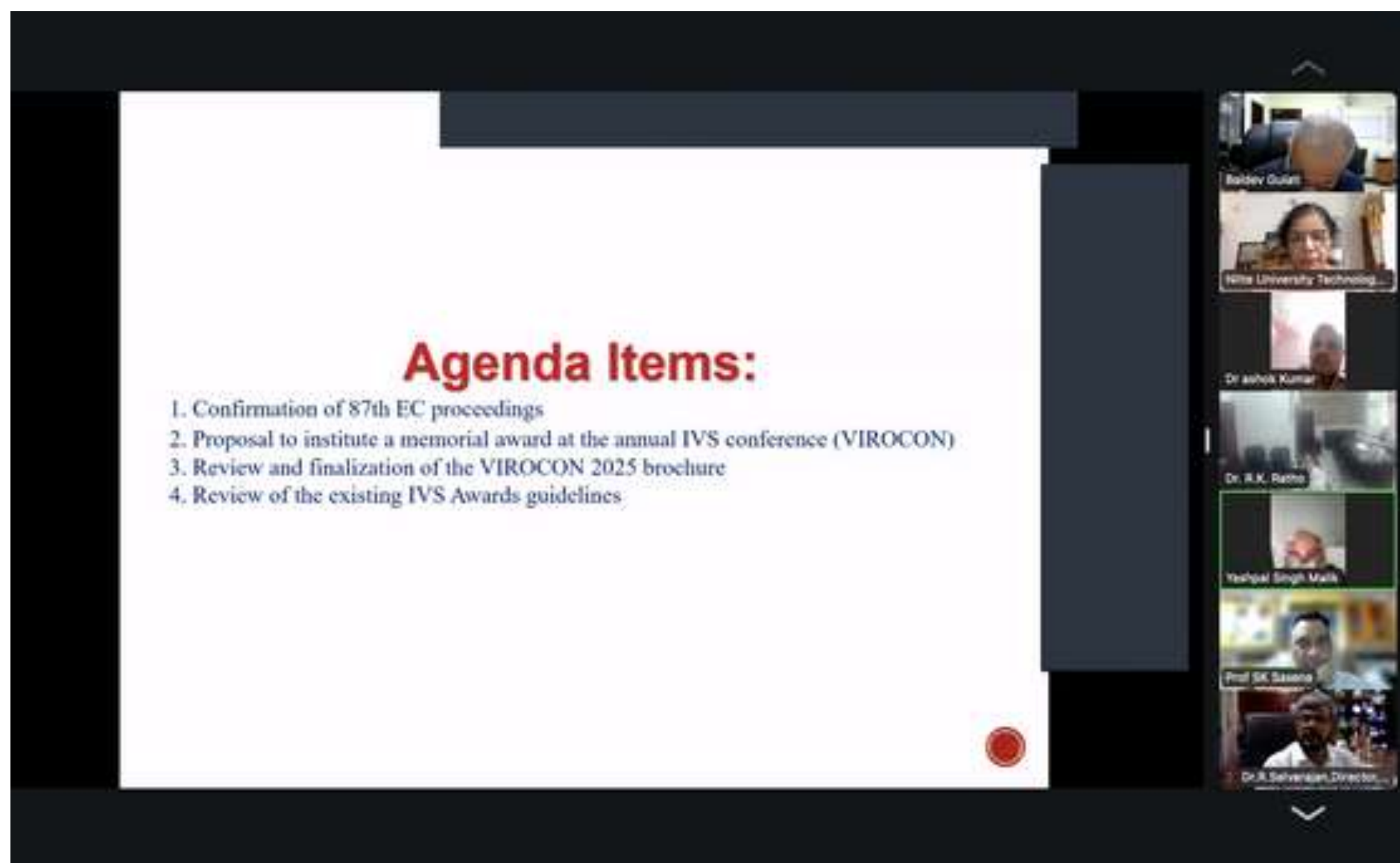
Advisory Board Meeting of International Decade of Sciences for Sustainable development, UNESCO 25th August



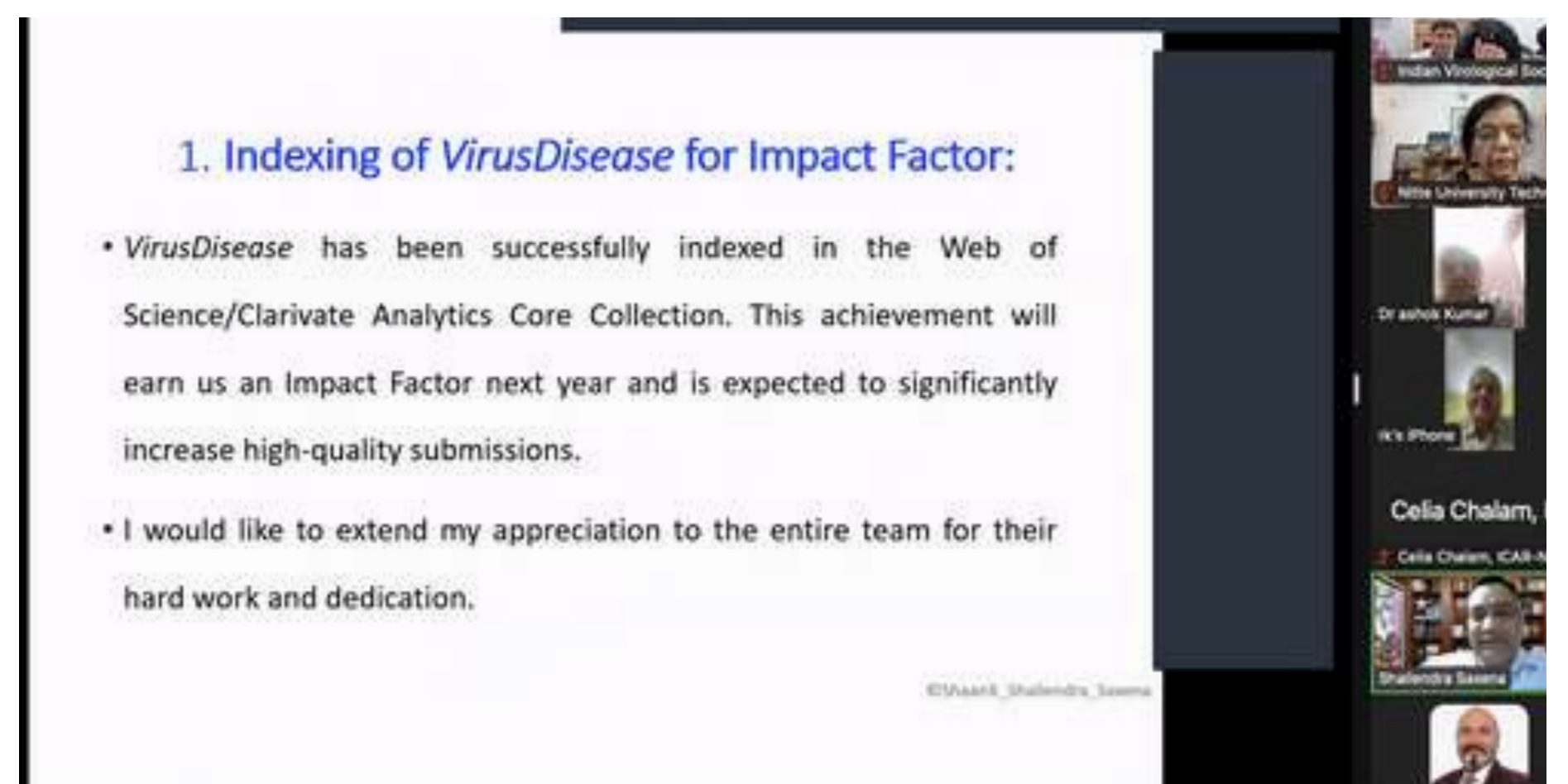
Advisory Committee Members of the International Decade of Sciences for Sustainable Development



Prof Dr Indrani Karunasagar has been nominated to the advisory committee for the International Decade of Sciences for Sustainable Development. Her Expertise and support are considered invaluable to the success of the Science Decade and UNESCO greatly appreciates the commitment of the Five International Board members to advancing its goals. The responsibilities at the global level include providing expert advice, reviewing International project proposals submitted during the decade and offering guidance on scientific and ethical matters. The contributions are expected to align with the mission and objectives of the decade and help in ensuring success. [Webpage:<https://www.un-sciences-decade.org/en/governance>]



Meeting of executive committee members on their role in the organization of the National Conference VIROCON 2025 held at National Institute of Virology, Pune on 3rd September 2025.



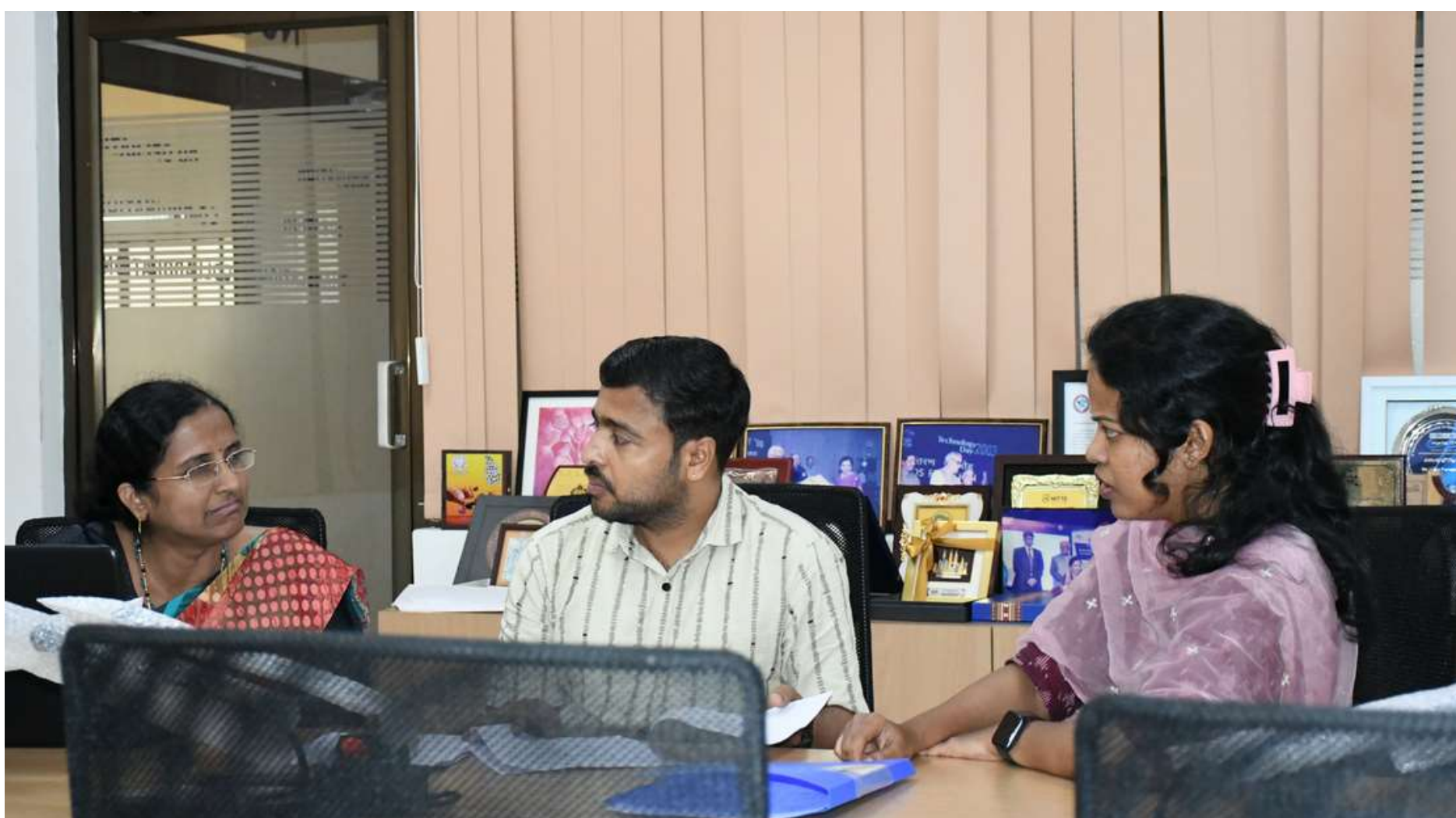
Discussion with chief editor and executive committee members of the Journal Virus Disease regarding indexation in Web of Science on 20th September 2025



Ms Aishwarya and Mr. Joel Joseph, Microbiology Dept Faculty, St Aloysius DU visited DST TEC on 16th July 2025 to discuss and submit project on waste management.



Ms Priyalatha and Mr Aravind Kumar visited DST TEC on 16th August 2025 regarding improvisation of prototype on paper making from agro waste to submit BIRAC project to DBT Govt of India



Discussion regarding project development and submission to DST on Advanced Manufacturing Technology project by Dr Vinitha and Dr Vinod from MITE, Moodabidri on 28th August 2025 .



Discussion with the faculty from Department of Psychiatry, KSHEMA regarding Suicide Awareness week on 30th September 2025



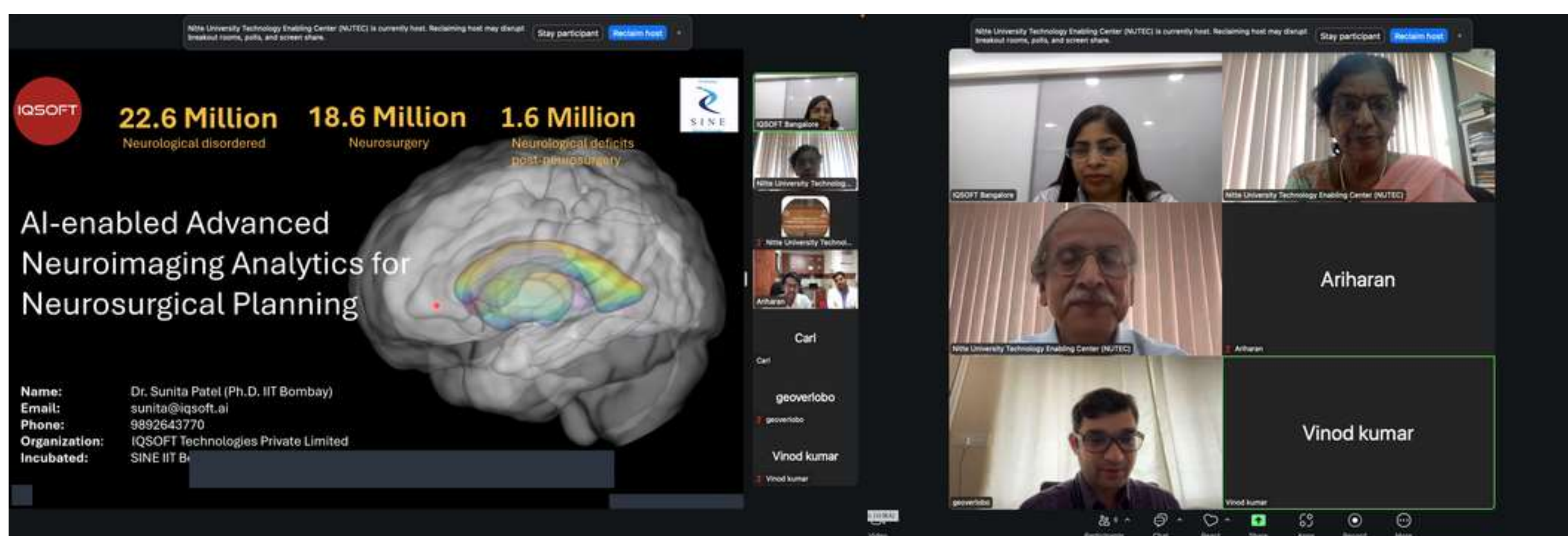
Discussion with Dr. Animikh and Dr . Ramesh Bhat ,Father Muller's Medical College regarding Field Testing of Technologies and their validation on 25th July 2025



Discussion with Dr Marina Koland, Principal NGSMIPS, and by Ms Anisha Rodrigues and Dr Neha Rao on Dental Root Canal Treatment Study Protocol on 21st July 2025



A meeting, facilitated by Profs Iddya Karunasagar and Indrani Karunasagar of DST NUTEC , was held on 28th August 2025 between Nitte DU represented by The Hon'ble Vice Chancellor Prof M S Moodithaya and the Registrar Prof Dr Harsha Hallahalli and University of Dundee, Scotland represented by Prof Dr Faisal Khan, Associate Dean (International) and Professor of Cardiovascular Sciences , School of Medicine, and Prof Dr Sudhir Tauro , Clinical Senior Lecturer , Bone Marrow Transplant Specialist, Ninewells Hospital and Medical School, to collaborate with K S Hegde Medical Academy , Nitte DU in Medical Education and in Research areas of common interest.



IQSOFT is a IIT Mumbai based startup that has developed a software NEUROVIZ for automated tumour segmentation with Volumetric Analysis, White matter tractography and tumor-tract proximity Analysis. Discussions were held about this software and their validation by interventional radiologists on 3rd September 2025.

Patents Published

Inventors	Institution	Title	Application No.
Yajnesh Rai K, Prithvisagar KS, Praveen Rai, Deekshit VK, Akhila DS, Indrani Karunasagar	NUCSER	Species specific oligonucleotide primers for molecular of <i>Streptococcus agalactiae</i>	202541067390
Prerana Sharan, Krishna Kumar B, Biswajit Maiti, Praveen Rai	NUCSER	Unique primer pairs for the rapid detection of Hepatitis B Virus (HBV) by polymerase spiral reaction (PSR) assay	202541068643
Ms Saloni Prabhakar, Dr. Ramya Harsha, Dr. Indrani Karunasagar	NUCSER	Process for extraction of Betacyanin from dragon fruit peel (<i>Selinicereus spp</i>)	202541068644
Dr. Teena Sheethal Dsouza, Ms Prathiksha D Kudva	ABSMIDS	Non-invasive detection of dental anxiety and phobia through salivary opiorphin measurement	202541072009
Dr. B.A. Praveena, Dr. Balachandra Shetty	NMIT	Compact, modular and sustainable electric motor housing for mobility applications	202541072010
Dr Reji John, Mr Praveen N, Dr Feby Lukose, Dr. Santhosh Wilson Goveas	St Aloysius Deemed to be University NIPE	Artificial intelligence based system for sustainable development goal (SDG) identification	202541083994
Dr. M. Sukesh Rao, Dr. Ratnamala Rao	NMAMIT ICMR	Wearable photoplethysmography (PPG) device for continuous monitoring of cardiovascular function and pulse activity	202541084673

**Details of the Projects supported by Nitte University DST TEC
under Technology Translation and Innovation Division in
Advanced Manufacturing Technologies/Waste Management
Technologies Scheme to the DST.
(NU DST TEC is a partner in all the Projects).**

Projects submitted from NitteDU Institutions

SI No	AMT/ WMT	Institute	PI & Co-PI	Title of the project
1	AMT	NMIT, Bengaluru	Dr Ramesh Babu	Soft computing techniques for optimization of microstructure, mechanical, wear and corrosion properties of SiC reinforced AlSi10Mg composite 3D printed via directed energy deposition for automotive applications
2	WMT	ICAR-CIFE, Mumbai, NitteDU	Dr Shamna N, Dr N.P. Sahu, Dr Manish Jayant, Dr Parimal Sardar, Dr Shobha Rawat, Dr Indrani Karunasagar, Dr Iddya Karunasagar, Dr Sriappareddy T, Dr Shimna	From Lab to Industry: Scaling Up Protein Extraction Prototype for Sustainable Aquafeeds
3	WMT	NMAMIT, ICAR-CPCRI	Dr Vidya SM, Dr Mural Gopal; Dr Anil Kumar HS	Valorisation of Biomass for packaging applications via Bacterial Cellulose - Lignocellulose waste composites processed with microbial consortium
4	WMT	NGSMIPS, NUCSER	Dr Marina Koland, Dr Caroline Dsouza, Dr Nishith	Extraction of keratin from chicken feathers and its applications in promoting ulcer healing
5	WMT	NUCSER	Dr Akhila D.S, Dr Juliet Mohan Raj, Dr Indrani Karunasagar	Development of a Bacteriophage-Based Biodegradable Bead System for Sustainable Poultry Wastewater Treatment
6	WMT	NUCSER, NGSMIPS	Dr Ramya Harsha, Dr BC Revanasiddappa	Dragon fruit peel as an eco-friendly and sustainable source of natural betacyanin towards commercial utilization
7	AMT	NMIT Bengaluru	Dr Praveena B. A, Dr Balachandra P. Shetty	Replacement of Rare Earth Materials in High-Efficiency Synchronous Reluctance Motors (SynRM) Using Ferrite-Based Permanent Magnets for Electric Vehicles with Embedded Control, AI, and Digital Twin Technologies

Projects submitted from other Institutions from the region

SI No	AMT/WMT	Name of the institute	PI & Co-PI	Title of the project
1	WMT	CHRIST (Deemed to be University), Bangalore	Dr Sunaja Devi K R, Dr Vishwanath R S	Sustainable Valorization of Mine Waste into Advanced environmental Remediation
2	AMT	Viswam Engineering college, Madanapalli, Andhra Pradesh	Dr K. Sateesh, Dr Kumar Reddy	Investigation on the effect of different additives in wire electrical discharge machining of hss
3	WMT	Viswam Engineering college, Madanapalli, Andhra Pradesh	Dr K. Sateesh, Dr Kumar Reddy	Experimental investigation on organic waste to convert into a useful product for overcoming the drawbacks of existing products
4	WMT	St Joseph Engineering College, Vamanjoor	Dr ESTR Chandrasekhar	Development of Enhanced Concrete from Industrial Waste
5	WMT	St Joseph Engineering College, Vamanjoor	Mr Noel Deppak Sherei	Upgrading of Plastic Waste for Various Uses
6	WMT	Ramaiah Institute of Technology	Dr Sushma B, Dr K. P. Suresh	Vegetable Waste Management: Analyzing and Providing Sustainable Solutions
7	WMT	JAIN (Deemed-to-be University), Bangalore	Mr. Gautham Krishna, Dr. Dushyanth V Babu R, Dr. Dasarathy A K	Multi-Stage Healthcare Wastewater Remediation Using trifusion-bioac: A Bio-Sourced Activated Carbon Functionalized with Graphene Oxide and Chitosan for Broad-Spectrum Pollutant Adsorption and Sustainable Pharmaceutical Sludge Management
8	WMT	RV College of Engineering, Bangalore	Dr Vinutha Moses	Development of a Scalable Waste Segregation and Biofuel Extraction System for Urban Organic Waste Streams
9	WMT	Jyothy Institute of Technology, Bengaluru	Dr Gayathri Jayaram	Biomedical Waste Valorization through Incineration Ash Characterization for Super capacitor applications
10	WMT	Mangalore Institute of Technology & Engineering, College of Fisheries, Mangaluru	Dr Vineetha Telma Dsouza, Dr Manja Naik	Reduction of noxious amine odour from fish meal & oil industry using physical methods and chemical methods
11	WMT	Presidency University, Bangalore; IISc	Dr Sk Safikul Islam, Dr Vijay Kumar Guina, Dr Suryasarathi Bose	Upcycling Plastic and Rubber Waste into High-Performance Construction Components

Projects submitted from other Institutions from the region

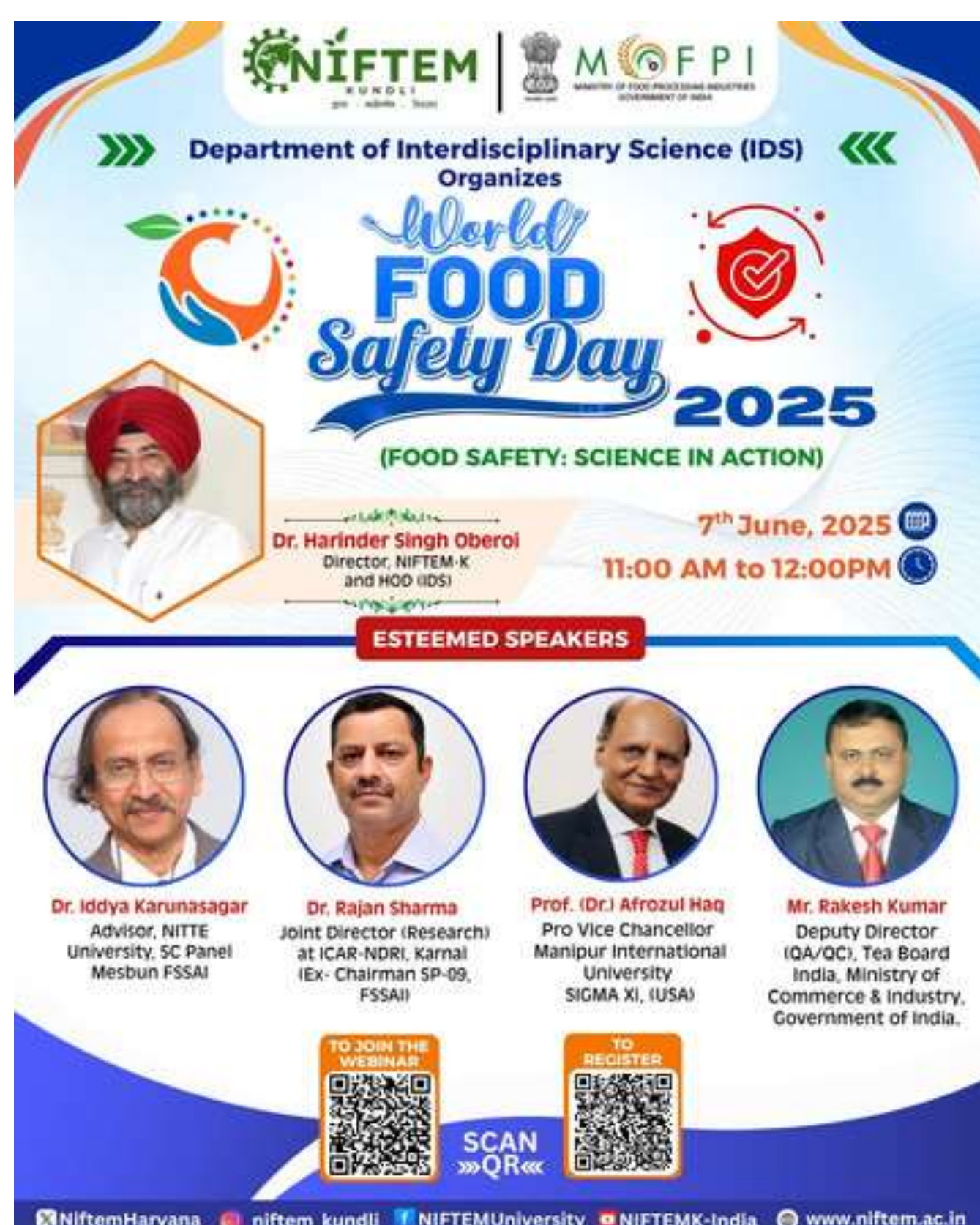
SI No	AMT/WMT	Name of the institute	PI & Co-PI	Title of the project
12	AMT	NIT Rourkela	Dr Behera Srinivas	Development of Ultra-Precision Micro-components for Scalable Mass Production for Biomedical Applications
14	WMT	Dayananda Sagar University (DSU), Bengaluru	Dr Pramod Kumar Naik, Dr Rupam Bhaduri	An AI-Driven Robotic System with iot-Enabled Real-Time Monitoring for Smart and Sustainable Biomedical Waste Management in Hospitals
15	WMT	ICAR-Central Marine Fisheries Research Institute	Dr Krupesha Sharma SR, Dr Sumithra TG, Dr Shinoj Subramannian, Dr Ratheesh Kumar R	Pilot-scale demonstration of microbial consortium-based technology for resource recovery from marine fish and shellfish waste
16	WMT	St Aloysius DU, Manipal School of Life Sciences	Dr Feby Luckose, Dr Nirmal Mazumder, Dr Daniella Anne L Chyne, Dr Reji P John	Jackfruit Waste Valorization through Biopolymer Extraction, Biodegradable Packaging and Functional Food Applications
17	WMT	PES College of Engineering, Mandya	Dr P S Lakshmi	Developing Value-Added Products from Rain Tree Pod Waste A Sustainable Route to Ethanol, Adhesives, and Construction Binders
18	AMT	RV College of Engineering Bengaluru	Dr Bharatish A	Development of a Computed Axial Lithography Unit for 3D Printing of Microfluidic Devices
19	WMT	Lingaraj Appa engineering College Bidar	Dr Jitendra Sunte	Waste managemnet technologies
20	WMT	ICFRE-Institute of Wood Science and Technology (IWST), Bengaluru	Dr Vipin K. Chawla,	Bio-reinforced Plastic Composites from Lignocellulosic Biomaterial Derived from Agro-residue Pulping Waste for sustainable packaging material
21	WMT	Mangalore Institute of Technology & Engineering	Dr Vinod Kumar MV	Development and Pilot-Scale demonstration of composite paver blocks from recycled LDPE and industrial waste
22	WMT	R V College of Engineering	Dr Neeta Shivakumar	Development of Bioactive Thinfilms for food packaging harnessing agricultural waste

Promoting technology development and entrepreneurship at Bearys Institute of Technology



Dr Iddya Karunasagar, Advisor, DST Technology Enabling Center, Nitte (Deemed to be University) delivered a session on “Igniting ideas – Opportunities in entrepreneurship” at Bearys Institute of Technology, Mangalore on August 25, 2025. Dr. Abdullah Gubbi, Head of Electronics and Communication Engineering coordinated the event that was attended by about 80 faculty members and students. Dr Karunasagar explained about inventions and innovations and their importance in developing new technologies or advancing their translational level.

He introduced the concept of technology readiness level (TRL) and the process of design thinking involving stages like empathise, define, ideate, prototype, and test any technology or product that would meet the consumer and market needs. He highlighted inventions, intellectual property, and the need to protect intellectual property through patents, design registrations, trademarks, geographical indications, and copyrights. The presentation was followed by a discussion session.



Delivering Expert talk on World Food Safety Day-2025

The Department of Interdisciplinary Science (DIS), under NIFTEM, Sonipat , Haryana and the Ministry of Food Processing Industries (MoFPI), organized World Food Safety Day 2025 on June 7, 2025. The theme for the event was "Food Safety: Science in Action", focusing on the importance of science in ensuring food safety in society.

Prof. Iddya Karunasagar, Advisor (Research & Patents), NitteDU, was one of the invited speakers of the event. He briefed the audience gathered on the relevance of science- based strategies in establishing safer food processes, compliance with regulations and industry trends for protecting public health.

IPR workshop in St Aloysius Deemed to be University



Dr Iddya Karunasagar delivered a talk in the workshop on Intellectual Property Rights (IPR) and Patent filing for faculty of St Aloysius Deemed to be University on August 19, 2025. The workshop was held in Sanidhya Hall and was attended by 60 faculty from different disciplines. In the first session, Dr Iddya Karunasagar gave an overview of different IPR like patents, copyright, industrial designs, geographical index and trade marks. This was followed by the second session where he detailed about the identification of inventions and determining eligibility for patenting through prior art search, items that are not eligible for patent as per Section 3 and Section 4 of Indian Patent Law, procedure for filing patent applications, responding to objections

in First Examination Report and Hearing before Intellectual Property Rights Controller. The workshop was interactive with lot of questions and clarifications from the faculty.



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