



## Program schedule for INFUSE 2025

| Day 1 – 17 <sup>th</sup> September 2025 |                                                                                                                                                              |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time                                    | Program                                                                                                                                                      |
| 8:30 am – 9:20 am                       | <b>Registration</b>                                                                                                                                          |
| 9:20 am – 9:25 am                       | <b>Welcome note</b>                                                                                                                                          |
| 9:25 am – 9:30 am                       | <b>Invocation song and lighting of lamp</b>                                                                                                                  |
| 9:30 am – 9:35 am                       | Welcome Note by Dr. Suhas Ballal<br>Convener – INFUSE 2025                                                                                                   |
| 9:35 am – 9:45 am                       | <b>Welcome Speech</b> by Dr. Asha Rajiv,<br>Director – School of Sciences, JAIN (Deemed-to-be University)                                                    |
| 9:45 am – 9:55 am                       | <b>Presidential Address</b> by Mr. Ravindra Bhandari<br>Vice-President, JAIN (Deemed-to-be University)                                                       |
| 9:55 am – 10:10 am                      | <b>Inaugural Speech</b> by Dr. Jitendra Mishra<br>Vice Chancellor (I/c), JAIN (Deemed-to-be University)                                                      |
| 10:10 am – 10:50 am                     | <b>Key Note Address</b><br>Dr. Osamu Shimmi<br>Professor in Developmental Biology<br>Institute of Molecular and Cell Biology<br>University of Tartu, Estonia |
| 10.50 am – 11:00 am                     | <b>Vote of thanks</b><br>Dr. Suhas Ballal, Convener, INFUSE                                                                                                  |
| 11:10 am - 11:15                        | <b>Tea Break</b>                                                                                                                                             |
| 11:15 am – 12:15 pm                     | Parallel sessions Plenary talks                                                                                                                              |
| 12:15 pm – 01:00 pm                     | Parallel sessions – Oral presentation                                                                                                                        |
| 1:00 pm - 2:00 pm                       | <b>Lunch</b>                                                                                                                                                 |
| 2:00 pm - 4:00 pm                       | Parallel Sessions– Oral presentation                                                                                                                         |
| 3:00 pm -5:00 pm                        | Poster session (with Coffee/Tea break )                                                                                                                      |



| <b>Day 2 – 18<sup>th</sup> September, 2025</b> |                                                                                                                                 |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Time</b>                                    | <b>Program</b>                                                                                                                  |
| 9:30 am – 10:50 am                             | Parallel Plenary Talk                                                                                                           |
| 10:50 am – 11:00 am                            | <b>Tea Break</b>                                                                                                                |
| 11:00 am – 1:00 pm                             | Oral Presentation / Poster Presentation                                                                                         |
| 1:00 pm – 2:00 pm                              | <b>Lunch Break</b>                                                                                                              |
| 2:00 pm – 3:00 pm                              | <b>Panel Discussion</b>                                                                                                         |
| 3:30 pm – 4:00 pm                              | <b>Valedictory</b> <ul style="list-style-type: none"><li>• Award Ceremony</li><li>• Vote of Thanks</li><li>• Feedback</li></ul> |
| 4:00 pm onwards                                | High Tea                                                                                                                        |

**18/09/2025****PANEL DISCUSSION****2:00 PM**

| S.No. | PANEL<br>DISCUSSION | PANELISTS          | DESIGNATION                                                                                              |
|-------|---------------------|--------------------|----------------------------------------------------------------------------------------------------------|
| 1     |                     | Dr. R. Srikanth    | Associate Professor<br>Dept. of Theoretical Sciences<br>Poornaprajna Institute of Scientific<br>Research |
| 2     |                     | Mr. Sai Prasad S N | Director - Partnerships at Newgen<br>Software, Bengaluru                                                 |

**PARALLEL PLENARY TALKS****17/09/2025****11:15 AM – 12:00 PM**

| Name                  | Designation                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Prof. Bibha Choudhary | Professor, Disease Genomics<br>Institute of Bioinformatics and Applied Biotechnology                                                             |
| Dr. Chethan           | Director, Axonet<br>Research Center for National Forensic Science<br>University<br>Recognised by the Dept of Scientific & Industrial<br>Research |
| Mr. Arunakumar T S    | MD & CEO, SEESCON.                                                                                                                               |

**18/09/2025****9:30 AM – 10:50 AM**

| Name                  | Designation                                                                 |
|-----------------------|-----------------------------------------------------------------------------|
| Dr. Anoop Vincent     | HoD & Professor<br>Sri Narayana Institute of Medical Sciences,<br>Ernakulam |
| Dr. Shashi Thutupalli | NCBS & International Centre for Theoretical<br>Sciences                     |



## Parallel Oral Sessions' Schedule

| Theme               | Biological Sciences |                                                                                                                                                                              |         |      |                    |
|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 1               | 17-09-2025          | Session                                                                                                                                                                      | Morning | Time | 12:15 PM - 1:00 PM |
| Room No             |                     |                                                                                                                                                                              |         |      |                    |
| Time                | Abstract ID         | Title                                                                                                                                                                        |         |      |                    |
| 12:15 PM- 12:25 PM  | 05                  | Nature's Answer to Resistance: Antibacterial and Antioxidant Efficacy of Averrhoa bilimbi Leaves                                                                             |         |      |                    |
| 12:25 PM - 12:35 PM | 12                  | Microgreen-Mediated Zinc Oxide Nanoparticles: An Eco-Friendly Approach Against Food-Borne Pathogens                                                                          |         |      |                    |
| 12:35 PM -12:45 PM  | 35                  | Insilico Molecular interaction study of Non-terpenoid and non-steroid constituents of neem (A. indica) against Breast cancer inducing protein (AXL receptor tyrosine kinase) |         |      |                    |
| 12:45 PM -12:55 PM  | 38                  | Decoding Host-Microbe Crosstalk: Novel Trends in Bombyx mori Gut Microbiota and Insect Immunity                                                                              |         |      |                    |

| Theme             | Biological Sciences |                                                                                                                                             |           |      |                   |
|-------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------|
| Day 1             | 17-09-2025          | Session                                                                                                                                     | Afternoon | Time | 2:00 PM - 4:00 PM |
| Room No           |                     |                                                                                                                                             |           |      |                   |
| Time              | Abstract ID         | Title                                                                                                                                       |           |      |                   |
| 2:00 PM - 2:10 PM | 56                  | Assessment of probiotic properties in Lactic Acid Bacteria (LAB) isolated from different food sources                                       |           |      |                   |
| 2:10 PM - 2:20 PM | 59                  | Influence of calf sex on milk nutrition and fatty acid profile of Gir and Sahiwal cattle breeds of Karnataka, India                         |           |      |                   |
| 2:20 PM - 2:30 PM | 65                  | Isolation and Characterization of Probiotic Species from Fermented Ragi Water                                                               |           |      |                   |
| 2:30 PM - 2:40 PM | 71                  | A Comparative Cytotoxic Study of Berberis Aristata Crude Extract on HeLa and K562 Cell Lines: An Integrated In-Vitro and In-Silico Approach |           |      |                   |
| 2:40 PM - 2:50 PM | 73                  | Investigating the effects of wood smoke exposure on developmental health, neurological development, and lifespan in Drosophila melanogaster |           |      |                   |
| 2:50 PM – 3:00 PM | 78                  | Microbial Bioleaching of spent Lithium-Ion batteries for valuable Metal Recovery                                                            |           |      |                   |
| 3:00 PM – 3:10 PM | 86                  | Cryopreserved Human Sperm Showed Enhanced Motility via Temporary Energy Restriction                                                         |           |      |                   |



| Theme               | Biological Sciences |                                                                                                                                                                                     |         |      |                    |
|---------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 2               | 18-09-2025          | Session                                                                                                                                                                             | Morning | Time | 11:00 AM - 1:00 PM |
| Room No             |                     |                                                                                                                                                                                     |         |      |                    |
| Time                | Abstract ID         | Title                                                                                                                                                                               |         |      |                    |
| 11:00 AM - 11:10 AM | 97                  | Effect Of Varying Concentrations Of Retinoic Acid On In Vitro Differentiation Of Sheep Spermatogonial Stem Cells                                                                    |         |      |                    |
| 11:10 AM - 11:20 AM | 150                 | Hypotaurine protects viability and mitochondrial membrane potential during cryopreservation of Sheep spermatogonial stem cells                                                      |         |      |                    |
| 11:20 AM - 11:30 AM | 152                 | In-vitro transfection efficiency of Sheep Spermatogonial Stem cells using Lipofectamine Reagents                                                                                    |         |      |                    |
| 11:30 AM - 11:40 AM | 178                 | Immunomodulatory effect of NF- $\kappa$ B and Nrf2 by R-Phycoerythrin: A Natural Anti-Inflammatory and Cytoprotective Agent                                                         |         |      |                    |
| 11:40 AM – 11:50 PM | 183                 | Use of Placket Burman design in optimizing the process parameters for decolorization of VAT blue 4 by the fungus <i>Lividopora vineta</i> isolated from textile industry effluents. |         |      |                    |
| 11:50 PM – 12:00 PM | 187                 | Effect of CuO, ZnO, and TiO <sub>2</sub> Nanoparticles on Withanolide Production in <i>Withania somnifera</i>                                                                       |         |      |                    |
| 12:00 PM – 12:10 PM | 205                 | Epigallocatechin Gallate: Anticancer potential, Therapeutic challenges and Translational Promises                                                                                   |         |      |                    |



| Theme               | Chemical Science |                                                                                                                                                                             |         |      |                    |
|---------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 1               | 17-09-2025       | Session                                                                                                                                                                     | Morning | Time | 12:15 PM - 1:00 PM |
| Room No             |                  |                                                                                                                                                                             |         |      |                    |
| Time                | Abstract ID      | Title                                                                                                                                                                       |         |      |                    |
| 12:15 PM- 12:25 PM  | 04               | A DSE-ESIPT-Active Organic Luminogen for Ratiometric Detection of Cu (II) Ions with “Off-On” Enantioselective Recognition of Amino Alcohols and Selective Hydrazine Sensing |         |      |                    |
| 12:25 PM - 12:35 PM | 08               | Assessment of Salutory properties of Schiff Base derived from Alloxan synthesised through Green Technology                                                                  |         |      |                    |
| 12:35 PM -12:45 PM  | 09               | Bacteriostatic and synergistic antibacterial effects of Piper betle and Petroselinum crispum extracts in combination with conventional antibiotics                          |         |      |                    |
| 12:45 PM -12:55 PM  | 34               | Optical and Photocatalytic applications of synthesized Strontium doped Zinc oxide nanoparticles through chemical co-precipitation method                                    |         |      |                    |
| 12:55 PM -1:05 PM   | 36               | Optical and Photocatalytic applications of green synthesized nickel doped manganese oxide nanoparticles prepared via microwave assisted Combustion method.                  |         |      |                    |

| Theme             | Chemical Science |                                                                                                                                                         |           |      |                   |
|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------|
| Day 1             | 18-09-2025       | Session                                                                                                                                                 | Afternoon | Time | 2:00 PM - 4:00 PM |
| Room No           |                  |                                                                                                                                                         |           |      |                   |
| Time              | Abstract ID      | Title                                                                                                                                                   |           |      |                   |
| 2:00 PM - 2:10 PM | 42               | Simultaneous detection of Sunset Yellow and Tartrazine using Al <sub>2</sub> O <sub>3</sub> modified nanoparticles via Enhanced Carbon Paste Electrodes |           |      |                   |
| 2:10 PM - 2:20 PM | 52               | Target-Specific Pesticide Against Thrips and Mites                                                                                                      |           |      |                   |
| 2:20 PM - 2:30 PM | 61               | High-performance PVA/PVP-based polymer film with a dual-crosslinked network of nanofillers for effective radiation shielding applications               |           |      |                   |
| 2:30 PM - 2:40 PM | 66               | Brown Seaweed as a potential contender for Green Energy and Sustainable Chemical Processes.                                                             |           |      |                   |
| 2:40 PM - 2:50 PM | 102              | Optimization of Ultrasound-Assisted Extraction of Okra Polysaccharides Using Response Surface Methodology                                               |           |      |                   |
| 2:50 PM – 3:00 PM | 139              | Sustainable Soil Solutions: Harnessing Bio-Silica from Millet Husk                                                                                      |           |      |                   |
| 3:00 PM – 3:10 PM | 168              | Biodegradable Water Bottles for a Plastic-Free Tomorrow                                                                                                 |           |      |                   |

| Theme               | Health Science |                                                                                                                                                          |         |      |                    |
|---------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 1               | 17-09-2025     | Session                                                                                                                                                  | Morning | Time | 12:15 PM - 1:00 PM |
| Room No             |                |                                                                                                                                                          |         |      |                    |
| Time                | Abstract ID    | Title                                                                                                                                                    |         |      |                    |
| 12:15 PM - 12:25 PM | 14             | Bacteriostatic and synergistic antibacterial effects of Piper betle and Petroselinum crispum extracts in combination with conventional antibiotics       |         |      |                    |
| 12:25 PM - 12:35 PM | 21             | Zebra fish as a model to study Acute pancreatitis- A novel method induced through Alcohol/L-arginine                                                     |         |      |                    |
| 12:35 AM - 12:45 PM | 27             | Bridging functional foods and nutraceuticals: Advances in bioactive compounds for health promotion and disease prevention                                |         |      |                    |
| 12:45 PM - 12:55 PM | 28             | Phytochemical constituents and therapeutic prospects of Biophytum sensitivum                                                                             |         |      |                    |
| 12:55 PM – 1:05 PM  | 45             | pH-triggered pectin–silver nanogel as precision vehicle to 5-flourouracil for enhanced oral bioavailability and effective drug release in cancer therapy |         |      |                    |

| Theme             | Health Science |                                                                                                                                                          |           |      |                   |
|-------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------|
| Day 1             | 17-09-2025     | Session                                                                                                                                                  | Afternoon | Time | 2:00 PM - 4:00 PM |
| Room No           |                |                                                                                                                                                          |           |      |                   |
| Time              | Abstract ID    | Title                                                                                                                                                    |           |      |                   |
| 2:00 PM - 2:10 PM | 49             | Purification Of Toxins From Bacterial Isolates Of Fruit And Vegetable Salads                                                                             |           |      |                   |
| 2:10 PM - 2:20 PM | 60             | Process Optimization for High-Yield Lactic Acid from Agricultural Residues for Biomedical PLA Applications                                               |           |      |                   |
| 2:20 PM - 2:30 PM | 63             | Multigenerational Toxicity Assessment of Potassium Sorbate and Sodium Benzoate in Drosophila melanogaster                                                |           |      |                   |
| 2:30 PM - 2:40 PM | 68             | A study of risk factors and associated oral microbiome using NGS contributing to early childhood caries among the urban population of Bengaluru district |           |      |                   |
| 2:40 PM - 2:50 PM | 74             | A Teratological Study Of Faulty Neural Tube Closure And Neuro-Protection In Gallus gallus domestics                                                      |           |      |                   |
| 2:50 PM – 3:00 PM | 91             | Bridging Traditional Healing and Nutritional Neuroscience for Sustainable Health                                                                         |           |      |                   |
| 3:00 PM – 3:10 PM | 96             | Cigarette De-addiction Device Using Water Generated Steam                                                                                                |           |      |                   |
| 3:10 PM – 3:20 PM | 115            | AI and Big Data for Ageing Populations: Reimagining Digital Health Ecosystems in the Global South                                                        |           |      |                   |



| Theme               | Health Sciences |                                                                                                                                                        |         |      |                    |
|---------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 2               | 18-09-2025      | Session                                                                                                                                                | Morning | Time | 11:00 AM - 1:00 PM |
| Room No             |                 |                                                                                                                                                        |         |      |                    |
| Time                | Abstract ID     | Title                                                                                                                                                  |         |      |                    |
| 11:00 AM - 11:10 AM | 116             | Harnessing RNA therapeutics: novel approaches and emerging strategies for cardiovascular disease management                                            |         |      |                    |
| 11:10 AM - 11:20 AM | 132             | The Biopsychology of Enzymatic Degradation                                                                                                             |         |      |                    |
| 11:20 AM - 11:30 AM | 151             | Skin Anti-Aging Efficacy of Enzyme-Treated Supercritical Caviar Extract                                                                                |         |      |                    |
| 11:30 AM - 11:40 AM | 153             | Development Of An Eco-Friendly Novel Method To Extract Soluble Dietary Fibers From Medicinal Seeds And Their Application In Popular Fmcg Food Products |         |      |                    |
| 11:40 AM – 12:00 PM | 160             | Herbal Formulation For Oral Hygiene                                                                                                                    |         |      |                    |
| 12:00 PM – 12:10 PM | 170             | Nutrigenomics and Vitamin Metabolism: Implications for Deficiency and Health                                                                           |         |      |                    |
| 12:10 PM – 12:20 PM | 176             | Smart Nanoplatfroms: Chitosan Nanoparticles for Next-Generation Antimicrobial Strategies                                                               |         |      |                    |
| 12:20 PM – 12:30 PM | 179             | Non-essential Heavy Metals and Their Influence on Cardiovascular Disease and Therapeutic Efficacy                                                      |         |      |                    |





| Theme               | Mathematics and Data Science |                                                                                      |         |      |                    |
|---------------------|------------------------------|--------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 1               | 17-09-2025                   | Session                                                                              | Morning | Time | 12:15 PM - 1:00 PM |
| Room No             | LH2                          |                                                                                      |         |      |                    |
| Time                | Abstract ID                  | Title                                                                                |         |      |                    |
| 12:15 PM - 12:25 PM | 7                            | Characterizing Temporal Patterns of Urban Air Pollution and AQI Variability in Delhi |         |      |                    |
| 12:25 PM - 12:35 PM | 15                           | Spectral geometric aspects and applications to resonances and related themes         |         |      |                    |
| 12:35 AM - 12:45 PM | 16                           | Precision Agriculture Using Deep Learning-Based Tomato Leaf Disease Diagnosis        |         |      |                    |
| 12:45 PM - 12:55 PM | 41                           | Enhancing Recruitment through NLP-Driven Resume Screening                            |         |      |                    |
| 12:55 PM – 1:05 PM  | 57                           | Enabling Trustworthy Big Data Analytics through Federated Learning                   |         |      |                    |

| Theme             | Mathematical and Data Science |                                                                                                                                                                      |           |      |                   |
|-------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------|
| Day 1             | 17-09-2025                    | Session                                                                                                                                                              | Afternoon | Time | 2:00 PM - 4:00 PM |
| Room No           | LH2                           |                                                                                                                                                                      |           |      |                   |
| Time              | Abstract ID                   | Title                                                                                                                                                                |           |      |                   |
| 2:00 PM - 2:10 PM | 95                            | Disorder Severity Analysis Of Coconut Leaves Through Hybrid Deep Learning Approach                                                                                   |           |      |                   |
| 2:10 PM - 2:20 PM | 100                           | Precision Agriculture Using Deep Learning-Based Tomato Leaf Disease Diagnosis                                                                                        |           |      |                   |
| 2:20 PM - 2:30 PM | 103                           | Deep Belief Network For Detection Of Marine Pollutants And Sea Surface Features                                                                                      |           |      |                   |
| 2:30 PM - 2:40 PM | 104                           | Uncovering The Latent Dynamics Of Social Media Addiction Using A Hybrid Hmm-Rbm Framework                                                                            |           |      |                   |
| 2:40 PM - 2:50 PM | 105                           | Predictive Analytics and Data-Driven Decision Making for Early Detection of Diabetic Retinopathy                                                                     |           |      |                   |
| 2:50 PM – 3:00 PM | 106                           | Digital Guilt: Studying The Psychological Effect Of Online Transaction Histories On Student Behaviour                                                                |           |      |                   |
| 3:00 PM – 3:10 PM | 108                           | Data-Driven Player Performance Prediction For Odi Cricket Team Selection Using Supervised Machine Learning                                                           |           |      |                   |
| 3:10 PM – 3:20 PM | 110                           | Electro-Osmotic Peristaltic Propulsion of a PTT Fluid with Ciliary Motion in Rough-Walled Channels with Thermal Radiation: Micro-fluidic and Biomedical Applications |           |      |                   |
| 3:20 PM – 3:30 PM | 133                           | Analysis and Forecasting of Stock price based on a univariate time series approach                                                                                   |           |      |                   |
| 3:30 PM – 3:40 PM | 186                           | Review Of Traffic Modelling Techniques                                                                                                                               |           |      |                   |
| 3:40 PM – 3:50 PM | 206                           | The Role of Online Reviews in Shaping Hotel Booking Behavior                                                                                                         |           |      |                   |



| Theme               | Forensic Science |                                                                                                  |         |      |                    |
|---------------------|------------------|--------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 1               | 17-09-2025       | Session                                                                                          | Morning | Time | 12:15 PM - 1:00 PM |
| Room No             |                  |                                                                                                  |         |      |                    |
| Time                | Abstract ID      | Title                                                                                            |         |      |                    |
| 12:15 PM - 12:25 PM | 89               | RegTrace: USB-Based Windows Registry Forensic Tool                                               |         |      |                    |
| 12:25 PM - 12:35 PM | 118              | Comparative Analysis of Toe Prints Between Male and Female in Gujarat Population                 |         |      |                    |
| 12:35 AM - 12:45 PM | 123              | Latent Fingerprint Development Using Plant-Based Powders Derived from Groundnut Shell            |         |      |                    |
| 12:45 PM - 12:55 PM | 124              | An Innovative Biogenic Fingerprint Powder Derived From Seashells For Latent Print Identification |         |      |                    |

| Theme             | Forensic Science |                                                                                                                       |           |      |                   |
|-------------------|------------------|-----------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------|
| Day 1             | 17-09-2025       | Session                                                                                                               | Afternoon | Time | 2:00 PM - 4:00 PM |
| Room No           |                  |                                                                                                                       |           |      |                   |
| Time              | Abstract ID      | Title                                                                                                                 |           |      |                   |
| 2:00 PM - 2:10 PM | 126              | Analysis of Toe Prints Between Male and Female in Karnataka Population Comparative                                    |           |      |                   |
| 2:10 PM - 2:20 PM | 129              | Traceroute Analysis in Mobile Forensics Using AT&T Video Optimizer                                                    |           |      |                   |
| 2:20 PM - 2:30 PM | 136              | Enhancing DES Architecture by Replacing XOR with NAND in the Feistel Network                                          |           |      |                   |
| 2:30 PM - 2:40 PM | 140              | Uncovering Digital Trails in IoT networks: AI- enhanced signal field-based Network Forensics                          |           |      |                   |
| 2:40 PM - 2:50 PM | 142              | Supervised learning approach for estimating human height from footprint measurements                                  |           |      |                   |
| 2:50 PM – 3:00 PM | 144              | Advanced Network Traffic Monitoring Tool                                                                              |           |      |                   |
| 3:00 PM – 3:10 PM | 145              | Decentralized Anti-Counterfeiting System: Ethereum Smart Contracts and QR Code Integration for Product Authentication |           |      |                   |
| 3:10 PM – 3:20 PM | 156              | Latent Print Enhancement Using Plant-Based Powders Derived From Date Seed                                             |           |      |                   |



| Theme               | Forensic Sciences |                                                                                                              |         |      |                    |
|---------------------|-------------------|--------------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 2               | 18-09-2025        | Session                                                                                                      | Morning | Time | 11:00 AM - 1:00 PM |
| Room No             |                   |                                                                                                              |         |      |                    |
| Time                | Abstract ID       | Title                                                                                                        |         |      |                    |
| 11:00 AM - 11:10 AM | 182               | Correlation between breadth of the footprint and the human stature, in Tamil Nadu population                 |         |      |                    |
| 11:10 AM - 11:20 AM | 191               | Comb-Shaped Nanotube Architectures Synthesized under Oxygen-Free Conditions for Forensic Biomarker Detection |         |      |                    |
| 11:20 AM - 11:30 AM | 198               | Comparative study of Automobile Paint using FTIR and chemometrics _ A Review                                 |         |      |                    |
| 11:30 AM - 11:40 AM | 203               | Advancement in Crime Scene Investigation with reference to Luminol test of Blood stains: A review            |         |      |                    |



| Theme               | Physical Science |                                                                                                           |         |      |                    |
|---------------------|------------------|-----------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 1               | 17-09-2025       | Session                                                                                                   | Morning | Time | 12:15 PM - 1:00 PM |
| Room No             |                  |                                                                                                           |         |      |                    |
| Time                | Abstract ID      | Title                                                                                                     |         |      |                    |
| 12:15 PM - 12:25 PM | 44               | Exploring black hole mergers through gravitational wave                                                   |         |      |                    |
| 12:25 PM - 12:35 PM | 47               | Facile Reduction of Graphene Oxide Thin Films Using Ascorbic Acid for Improved Electrical Properties      |         |      |                    |
| 12:35 AM - 12:45 PM | 48               | Exploring LiZnBO <sub>3</sub> for Electrochemical Energy Storage: A Cost-Effective Borate-Based Electrode |         |      |                    |
| 12:45 PM - 12:55 PM | 51               | Impact of atmospheric moisture on Indian monsoon rainfall variability                                     |         |      |                    |
| 12:55 PM – 1:05 PM  | 92               | Analysing The Distinctive Properties of Stars and Exoplanets.                                             |         |      |                    |

| Day 1             | 17-09-2025  | Session                                                                                                                                                                             | Afternoon | Time | 2:00 PM - 4:00 PM |
|-------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------|
| Room No           |             |                                                                                                                                                                                     |           |      |                   |
| Time              | Abstract ID | Title                                                                                                                                                                               |           |      |                   |
| 2:00 PM - 2:10 PM | 92          | Analysing The Distinctive Properties of Stars and Exoplanets.                                                                                                                       |           |      |                   |
| 2:10 PM - 2:20 PM | 107         | The Quantum topological hologram: A stabilizer code framework for black hole information preservation                                                                               |           |      |                   |
| 2:20 PM - 2:30 PM | 109         | The Influence Of Ni Doping On Structural and Optical Properties Of Lanthanum Oxide (La <sub>2</sub> O <sub>3</sub> ) Thin Films Synthesized Through Sol-gel Spin Coating Technique. |           |      |                   |
| 2:30 PM - 2:40 PM | 125         | Influence of CuO Concentration on the Electrical Conductivity and Structural Properties of Lithium Borate Glasses                                                                   |           |      |                   |
| 2:40 PM - 2:50 PM | 128         | Enhanced Structural, Optical, and Photocatalytic Performance of Sm <sup>3+</sup> -Doped LaFeO <sub>3</sub> Nanoparticles Synthesized via Solution Combustion                        |           |      |                   |
| 2:50 PM – 3:00 PM | 169         | Induced magnetic field variability between day and night in the Martian ionosphere: Insights from MAVEN/MAG                                                                         |           |      |                   |
| 3:00 PM – 3:10 PM | 149         | Structural and thermal studies of barium doped phosphate bioactive glasses                                                                                                          |           |      |                   |
| 3:10 PM – 3:20 PM | 181         | Radiation shielding studies of Phosphate based heavy metal oxide glasses for Radiation shielding applications                                                                       |           |      |                   |

**Physical Science**

|                     |                    |                                                                                                                      |         |             |                    |
|---------------------|--------------------|----------------------------------------------------------------------------------------------------------------------|---------|-------------|--------------------|
| <b>Day 2</b>        | 18-09-2025         | <b>Session</b>                                                                                                       | Morning | <b>Time</b> | 11:00 AM - 1:00 PM |
| <b>Room No</b>      |                    |                                                                                                                      |         |             |                    |
| <b>Time</b>         | <b>Abstract ID</b> | <b>Title</b>                                                                                                         |         |             |                    |
| 11:00 AM - 11:10 AM | 171                | Design and Verification Methods of Digital System: An Overview                                                       |         |             |                    |
| 11:10 AM - 11:20 AM | 173                | Design, Development and Implementation of Solar Power-Based Bluetooth Controller for an Industrial Automation System |         |             |                    |
| 11:20 AM - 11:30 AM | 177                | Analysis and Detection of Multi-Lesion for Diabetic Retinopathy using CNN Based Approach                             |         |             |                    |
| 11:30 AM - 11:40 AM | 202                | Structure of Stellar Halos Across Dark Matter Models in Milky Way-like Galaxies Using the EAGLE Simulation           |         |             |                    |
| 11:40 AM – 11:50 AM | 23                 | Recent Advances In Green Hydrogen Production Technology With Socio Economic Analysis                                 |         |             |                    |
| 11:50 AM – 12:00 PM | 175                | Characterizing the Martian Ionospheric M2 layer using MAVEN / ROSE                                                   |         |             |                    |
| 12:00 PM – 12:10 PM | 146                | Electrostatics in a Crowded World: Bridging Theory and Cellular Reality in Macromolecular Interactions               |         |             |                    |

| Theme               | Engineering and Technology |                                                                                                             |         |      |                    |
|---------------------|----------------------------|-------------------------------------------------------------------------------------------------------------|---------|------|--------------------|
| Day 1               | 17-09-2025                 | Session                                                                                                     | Morning | Time | 12:15 PM - 1:00 PM |
| Room No             |                            |                                                                                                             |         |      |                    |
| Time                | Abstract ID                | Title                                                                                                       |         |      |                    |
| 12:15 PM - 12:25 PM | 17                         | CRISPR/Cas9-Mediated Knockout Of Susceptibility Genes For Blast Resistance In Pusa Basmati Rice             |         |      |                    |
| 12:25 PM - 12:35 PM | 19                         | Electrostatic Lake Foam Suppression Module                                                                  |         |      |                    |
| 12:35 AM - 12:45 PM | 84                         | Performance Monitoring And Power Conditioning Of Rooftop Solar Pv System Using Auxiliary Resonant Converter |         |      |                    |
| 12:45 PM - 12:55 PM | 88                         | Towards Intelligent Mirrors: A Review Of Actuation Strategies In Adaptive                                   |         |      |                    |
| 12:55 PM - 1:05 PM  | 93                         | A Review On - Impact Of Nano Admixture To Improve The Durability And Strength Of Concrete                   |         |      |                    |

| Theme             | Engineering and Technology |                                                                                                                   |           |      |                   |
|-------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------|
| Day 1             | 17-09-2025                 | Session                                                                                                           | Afternoon | Time | 2:00 PM - 4:00 PM |
| Room No           |                            |                                                                                                                   |           |      |                   |
| Time              | Abstract ID                | Title                                                                                                             |           |      |                   |
| 2:00 PM - 2:10 PM | 94                         | Next-Generation Solution For Water Disposal: Deep Soil Percolation                                                |           |      |                   |
| 2:10 PM - 2:20 PM | 122                        | Artificial Intelligence In Construction 4.0 - A Systematic Review Of Current Applications And Future Prospects    |           |      |                   |
| 2:20 PM - 2:30 PM | 159                        | Bridge Resilience To Earthquakes: Comprehensive Review Of Seismic Response, Fragility, And Isolator Effectiveness |           |      |                   |
| 2:30 PM - 2:40 PM | 167                        | Dewat System In Dsce College As Future Forecasting Persective By Iot Techniques                                   |           |      |                   |
| 2:40 PM - 2:50 PM | 174                        | Integrated Data Center Architecture For Carbon-Aware Operations And Lifecycle Sustainability                      |           |      |                   |
| 2:50 PM – 3:00 PM | 192                        | Solar MPPT Using Fuzzy Logic And Adaptive Mutation                                                                |           |      |                   |
| 3:00 PM – 3:10 PM | 200                        | Integration Of Artificial Intelligence And 5G Technology For Transformative Healthcare                            |           |      |                   |
| 3:10 PM – 3:20 PM | 213                        | Carbon Footprints And Renewable Energy: A Comprehensive Review Of Pathways For Sustainable Power Systems          |           |      |                   |
| 3:20 PM – 3:30 PM | 214                        | Smart Agriculture: Integrating Iot And Remote Sensing For Crop Management                                         |           |      |                   |
| 3:30 PM – 3:40 PM | 215                        | Mix Design And Strength Of Coral Shell Powder Concrete                                                            |           |      |                   |
| 3:40 PM – 3:50 PM | 216                        | An Experimental Study On Self- Curing Concrete Using GGBS Slag And Poly Ethelene Glycol                           |           |      |                   |
| 3:50 PM – 4:00 PM | 217                        | Partial Replacement Of Fine Aggregate By Sea Sand In Gpcc                                                         |           |      |                   |