

PROGRAM SCHEDULE

International Conference on “Nurturing Innovative Technological Trends in Engineering BIOscience” (NITTE-BIO 2026)

Session 1: Bioenergy, Waste Management, and Sustainable Bioprocesses

| Date: 05-02-2026 | | Afternoon |
|------------------|--|-----------|
| ID | Paper Title and Authors | |
| BIO 2606 | <i>Production and Characterization of Biofuel from Macroalgae: A Sustainable Biofuel Alternative</i> Authors: M. Nithya, R. Manoj, S. Miruthula, M. Gopika, G. Princy | |
| BIO 2632 | <i>A Comparative Study on Calophyllum inophyllum and Hevea brasiliensis Seed Oil-Based Biodiesel Production Process</i> Authors: Santhosh Poojary | |
| BIO 2618 | <i>Development and Agronomic Evaluation of Liquid Organic Fertilizer Derived from Black Soldier Fly (BSF) Frass</i> Authors: Jeyavishnu B, Gnanamangai B M, Dhanusigasree R | |
| BIO 2673 | <i>Rapid Composting of Solid Waste: An Eco-friendly Solution for Affordable Organic Manure</i> Authors: Dhanushkumar Annadherai, Sidhra Syed Zameer Ahmed, Meenachi Babu Rajendran | |
| BIO 2612 | <i>Optimization of Process Parameters for the Extraction of Natural Pigment from Cassia auriculata Using Response Surface Methodology</i> Authors: M. Kavinkumar, S. Poornima, V. Selvaganathy, S. Karthikeyan | |
| BIO 2626 | <i>Studies on Method of Mitigating Fuel Losses from Fuel Tank of Two-Wheeler</i> Authors: Kapilan Natesan, Srikanth H V, Shivarishika K, Sneha Nayak | |
| BIO 2660 | <i>Crop Yield Prediction Using Random Forest Regressor</i> Authors: Dr. Vindhya P Malagi, Usmanagani Davalasab Attar, Qalim F Indikar | |

Session 2: Nanotechnology, Phytochemicals, and Antimicrobial Applications

| Date: 06-02-2026 | | Morning |
|------------------|---|---------|
| ID | Paper Title and Authors | |
| BIO 2615 | <p><i>Green Synthesis of Nanoparticles from Holy Basil Leaves for Enhanced Antimicrobial Activity</i> Authors: Krishnaveni R, Abirami U, Poovarasu V, Prasad K</p> | |
| BIO 2634 | <p><i>Phytoogenic Fabrication of <i>Tithonia diversifolia</i> Zinc Nanoparticles as a Therapeutic Modulator in Redox Equilibrium, Inflammatory Modulation, and Oral Tissue Repair</i> Authors: Rohini Karthi, Renuka Govindaraj, Syed Zameer Ahmed Khader</p> | |
| BIO 2638 | <p><i>Phytoogenic Silver Nanoparticles from <i>Andrographis paniculata</i>: Green Nanotherapeutics Targeting Diabetes, Oxidative Stress, and Fungal Infections</i> Authors: Sidhra Syed Zameer Ahmed, Syed Zameer Ahmed Khader, Harini Rakshitha Vijayarangan</p> | |
| BIO 2653 | <p><i>The Efficacy of Lemon Oil (<i>Citrus limon</i>) as a Natural Antimicrobial Agent Against Clinically Relevant Pathogens</i> Authors: R K Vijayraj, Pavan R</p> | |
| BIO 2654 | <p><i>Extraction of Hesperidine from Sweet Orange Peels</i> Authors: Sateesh Hosamane, Sneha Bandekar, Chidanand Poojary</p> | |
| BIO 2668 | <p><i>Development of Herbal Hand Sanitizer through Teak (<i>Tectona grandis</i>) Leaf Extract and Formulation of Natural pH Indicator and pH Strips through <i>Bougainvillea glabra</i> – Review</i> Authors: M. Nithya, J. Swarnika, T. Sarath</p> | |

Session 3: Biomedical Research and Computational Biology

| Date: 06-02-2026 | | Afternoon |
|------------------|--|-----------|
| ID | Paper Title and Authors | |
| BIO 2614 | <i>Growth Optimization of Antioxidant and Antimicrobial Activity of Lentinus sp.</i> Authors: M. Nithya, A. Brindha, M. Durga, J. Swarnika, A. Sathyasri | |
| BIO 2631 | <i>Altered Fatty Acid Composition and Its Relationship with Inflammatory Markers in Type 2 Diabetes Mellitus</i> Authors: Harshini Devi Ullal, Suchetha Kumari N | |
| BIO 2635 | <i>Fasting Effects of Paracetamol-Induced Hepatotoxicity in Rats by Analysing Lipid Profile and Histopathological Studies</i> Authors: Manjunatha P, Keerthana Senthilkumar, Kavin Kumar | |
| BIO 2637 | <i>In Vitro Rejuvenation of the Therapeutic Plant Andrographis paniculata: A Sustainable Step Toward Pharmacological Resource Management</i> Authors: Sidhra Syed Zameer Ahmed, Syed Zameer Ahmed, Kavya | |
| BIO 2672 | <i>Lung Cancer Detection Using YOLOv8s: A Deep Learning Approach for Medical Image Analysis</i> Authors: Ashishkumar G Uppin, M S Upamanyu, A H Manjunatha Reddy | |
| BIO 2674 | <i>A CNN–BiLSTM Framework for Splice Site Prediction: Performance and Complexity Trade-Offs of DNA Numerical Mappings</i> Authors: Prasanna D R, Purushottama Lingadevaru | |
| BIO 2673 | <i>Genomic Signal Processing Approach for Mutation-Specific Lung Cancer Detection Using Multi-Domain Feature Fusion</i> Authors: Purushottama Lingadevaru, Prasanna D R | |