

## 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> <b>Authors:</b> 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> <b>Authors:</b> Santhosh Poojary	
BIO 2618	<i>Development and Agronomic Evaluation of Liquid Organic Fertilizer Derived from Black Soldier Fly (BSF) Frass</i> <b>Authors:</b> Jeyavishnu B, Gnanamangai B M, Dhanusigasree R	
BIO 2673	<i>Rapid Composting of Solid Waste: An Eco-friendly Solution for Affordable Organic Manure</i> <b>Authors:</b> Dhanushkumar Annadhurai, 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> <b>Authors:</b> 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> <b>Authors:</b> Kapilan Natesan, Srikanth H V, Shivarishika K, Sneha Nayak	
BIO 2660	<i>Crop Yield Prediction Using Random Forest Regressor</i> <b>Authors:</b> 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	<i>Green Synthesis of Nanoparticles from Holy Basil Leaves for Enhanced Antimicrobial Activity</i> <b>Authors:</b> Krishnaveni R, Abirami U, Poovarasu V, Prasad K
BIO 2634	<i>Phytogenic Fabrication of Tithonia diversifolia Zinc Nanoparticles as a Therapeutic Modulator in Redox Equilibrium, Inflammatory Modulation, and Oral Tissue Repair</i> <b>Authors:</b> Rohini Karthi, Renuka Govindaraj, Syed Zameer Ahmed Khader
BIO 2638	<i>Phytogenic Silver Nanoparticles from Andrographis paniculata: Green Nanotherapeutics Targeting Diabetes, Oxidative Stress, and Fungal Infections</i> <b>Authors:</b> Sidhra Syed Zameer Ahmed, Syed Zameer Ahmed Khader, Harini Rakshitha Vijayarangan
BIO 2653	<i>The Efficacy of Lemon Oil (Citrus limon) as a Natural Antimicrobial Agent Against Clinically Relevant Pathogens</i> <b>Authors:</b> R K Vijayraj, Pavan R
BIO 2654	<i>Extraction of Hesperidine from Sweet Orange Peels</i> <b>Authors:</b> Sateesh Hosamane, Sneha Bandekar, Chidanadan Poojary
BIO 2668	<i>Development of Herbal Hand Sanitizer through Teak (Tectona grandis) Leaf Extract and Formulation of Natural pH Indicator and pH Strips through Bougainvillea glabra – Review</i> <b>Authors:</b> M. Nithya, J. Swarnika, T. Sarath

## 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> <b>Authors:</b> 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> <b>Authors:</b> 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> <b>Authors:</b> 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> <b>Authors:</b> 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> <b>Authors:</b> 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> <b>Authors:</b> Prasanna D R, Purushottama Lingadevaru	
BIO 2673	<i>Genomic Signal Processing Approach for Mutation-Specific Lung Cancer Detection Using Multi-Domain Feature Fusion</i> <b>Authors:</b> Purushottama Lingadevaru, Prasanna D R	