



KONGUNADU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

Re-accredited by NAAC with A⁺ Grade - 4th cycle,

College of Excellence – UGC

Coimbatore - 641 029, Tamil Nadu, India

DEPARTMENT OF MATHEMATICS

supported by

DBT STAR COLLEGE SCHEME

REPORT

Name of the Event	A One Day National Seminar on Innovative Project Ideas in Interdisciplinary Mathematical Modeling using Artificial Intelligence
Date	29.08.2025
Time	10.00 AM
Resource Person With Designation	Session I : Dr. M. Kirankumar Assistant Professor of Mathematics Vidyavardhaka College of Engineering Mysuru - 570 002 Session II : Dr. M. Raju Associate Professor of Mathematics Department of Science and Humanities Jansons Institute of Technology Coimbatore.
Venue of the Programme	C15
Objectives of the Programme	➤ To foster knowledge exchange on cutting-edge trends in mathematical modeling and computational sciences. ➤ To explore novel applications of AI-driven mathematical models across diverse domains. ➤ To address challenges and opportunities in simulation methodologies, computational algorithms, and interdisciplinary research. ➤ To encourage early-career researchers and students to engage in impactful, innovative projects.
Outcome of the Programme	The seminar successfully created a vibrant platform for idea exchange, networking, and collaboration. It reinforced the importance of AI-enhanced mathematical modeling in tackling complex scientific and industrial challenges.
Number of Beneficiaries with Class (Both Students and Faculty)	61UG Students, Total=61

Report of the Programme

The Departments of Mathematics organize “A One Day National Seminar on Innovative Project Ideas in Interdisciplinary Mathematical Modeling using Artificial Intelligence” on 29.08.2023 at 10.00 am. Dr.M.Venkatachalam, Assistant Professor of Mathematics, Kongunadu Arts and Science, Coimbatore welcomed the gathering and introduced the Resource person in Session I Dr. M. Kirankumar, Assistant Professor of Mathematics, Vidyavardhaka College of Engineering, Mysuru - 570 002. The resource person delivered the concepts of Applications of Mathematics in Image Processing. He discussed key AI techniques such as machine learning, neural networks, and optimization algorithms, and how they enhance traditional modelling approaches. The session included case studies from environmental science, biomedical engineering, and smart agriculture, showcasing how AI can simulate complex systems with greater accuracy. He encouraged participants to think beyond disciplinary boundaries, proposing collaborative projects that merge mathematics with computer science, biology, and engineering. In Session II : Dr. M. Raju ,Associate Professor of Mathematics, Department of Science and Humanities Jansons Institute of Technology, Coimbatore He emphasized the interdisciplinary nature of linear algebra, linking it to fields such as physics, economics, and artificial intelligence. He presented interactive examples and encouraged students to solve problems. The session included a live demonstration of matrix operations using computational tools. Students were introduced to research opportunities involving linear algebra in renewable energy modeling and optimization—areas aligned. The interactive Q&A segment allowed students to pitch their ideas and receive feedback on feasibility, methodology, and scope and were discussed and 61 student's were benefited. Dr.M.Vigneshwaran, Assistant Professor, Department of Mathematics, proposed the vote of thanks.



Resource person Session I :
Dr. M. Kirankumar
 Associate Professor of Mathematics
 Department of Science and Humanities
 Vidyavardhaka College of Engineering
 Mysuru - 570 002 has delivered the lecture.



Resource person Session I :
Dr. M. Raju
 Assistant Professor of Mathematics
 Department of Science and Humanities
 Jansons Institute of Technology
 Coimbatore has delivered the lecture



Beneficiaries (UG Students)