

A.K.D. DHARMA RAJA WOMEN'S COLLEGE, RAJAPALAIYAM

DEPARTMENT OF MATHEMATICS

TLC Programme (IIT Madras) Report

Three faculty members from the Department of Mathematics, **Mrs. P. Meenakshi, Mrs. B. Jagadeeswari, and Mrs. R. Muthulakshmi**, Assistant Professors, participated in the **Malaviya Mission Teacher Training Programme (MMTTP) – STEM Mathematics**, a Faculty Development Programme conducted by the **Indian Institute of Technology Madras**. The programme was held from **December 15th to 23rd, 2025**, at the **KCB Building, 5th Floor, IIT Madras**, under the coordination of **Dr. Arindama Singh**.

The programme was systematically structured with four academic sessions each day from **9:15 AM to 5:00 PM**, with appropriate break hours. The sessions covered core undergraduate and postgraduate mathematics topics such as **Real Analysis, Differential Equations, Functions of One Real Variable, Finite Dimensional Vector Spaces, Multivariable Calculus, Integral Calculus, Groups, and Matrices**. Each topic was handled in progressive modules across multiple days, ensuring conceptual clarity and depth.

Eminent subject experts from premier institutions delivered the lectures, including **Dr. Surjit Kumar (Real Analysis), Dr. Ch. S. Rao (Differential Equations), Dr. A. K. B. Chand (Vector Spaces), Dr. G. Arunkumar (Functions of One Real Variable), Dr. S. Roy (Multivariable Calculus), Dr. A. V. Jayanthan (Groups), Dr. S. Mishra (Matrices), and Dr. Manam S. Rao (Integral Calculus)**. The sessions emphasized rigorous mathematical reasoning, problem-solving techniques, curriculum alignment, and effective pedagogical strategies.

The programme provided valuable exposure to **innovative teaching methodologies**, outcome-based education, and advanced content delivery techniques in STEM mathematics. Interactive discussions and structured modules helped participants strengthen both subject knowledge and instructional skills.

Overall, the MMTTP programme was highly beneficial and intellectually enriching. The knowledge and pedagogical insights gained will significantly enhance classroom teaching practices and contribute to improved academic standards in the Department of Mathematics.



