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Dr. S. Jai Roselin, Assistant Professor of Mathematics

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Mr. A. Saran Raj

Registration Fee : Rs. 500/-

(Includes Refreshment and Course Material - No Lunch and Accommodations)

Last Date for Registration

07.02.2025

Click here for Registration:

<https://seminar.sjctni.edu/Maths/CSIR-NET/>

Further details Contact

Dr. S. Ithaya Ezhil Manna

Assistant Professor & Organising Secretary

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Two Day Workshop on

PROBLEM SOLVING IN DIFFERENTIAL EQUATIONS, CALCULUS OF VARIATIONS, INTEGRAL EQUATIONS AND STOCHASTIC PROCESSES

(Focus on CSIR - NET Problems)

Date : 10.02.2025 & 11.02.2025

Venue : AV Hall



Micro Quality Cell (MQC)

PG & RESEARCH DEPARTMENT OF MATHEMATICS

ST. JOSEPH'S COLLEGE (AUTONOMOUS)

Accredited with A++ Grade (4th Cycle) by NAAC, Special Heritage Status by UGC
College with Potential for Excellence by UGC, DBT-STAR, DST-FIST Sponsored College

TIRUCHIRAPPALLI - 620002. TAMIL NADU, INDIA

ABOUT THE INSTITUTION

St. Joseph's College is established in 1844 by the Fathers of Society of Jesus (The Jesuits). The College is owned by the Society of St. Joseph's, a body registered under Societies Regulation Act (1860), having its office at Tiruchirappalli. St. Joseph's College is a First Grade College affiliated to Bharathidasan University. It was affiliated to Madras University in 1866. The College celebrated its centenary in 1944 and sesquicentenary in 1995. St. Joseph's College acquired the five star status by NAAC in 2002, College with Potential for Excellence in 2004 by UGC, A+grade, A grade and A++grade by NAAC in 2006, 2012 and 2019 respectively. Special Heritage Status in 2015 by UGC, 25th Rank in 2024 by NIRF, the MHRD of India. This Jesuit College trains young men and women of quality to be leaders in all walks of life so that they may serve the people of the nation in truth, justice and love.

ABOUT THE DEPARTMENT

The Department of Mathematics is one of the oldest and premiere Departments of the college from its inception in 1844 and has a lion's share in the prominence and the progress of this great educational institution. In 1911, the University of Madras granted permission to run the Honours course in Mathematics. From 1960 onwards, the Department offers M.Sc in Mathematics and in 1976 the Department became a full fledged Research Department offering Ph.D programme. The Department has at present 27 faculty members specialized in diverse areas of Pure and Applied Mathematics.

ABOUT THE WORKSHOP

The objective of this workshop is to impart a sound theoretical foundation on the fundamental concepts of Differential Equations, Calculus of Variations, Integral Equations and stochastic processes and to provide a comprehensive understanding of the nuances and how to apply the relevant techniques to solve the problems. This workshop is exclusively arranged for M.Sc. Mathematics students, Research Scholars and Faculty members to focus on CSIR - NET / SET examinations.

Salient features:

- CSIR - NET problems (from 2011 to 2024) will be discussed.
- Workshop material will be provided.

Programme schedule

Day 1 (10.02.2025)

- 09.00 am : Registration
09.30 am : Inauguration
10.00 am : Session 1: **Calculus of Variations**
Resource Person: **Dr. J. Maria Joseph**,
Assistant Professor of Mathematics,
St. Joseph's College (Autonomous), Trichy
- 12.30 pm : Lunch
01.30 pm : Session 2: **Ordinary Differential Equations**
04.30 pm : Resource Person: **Dr. S. Ithaya Ezhil Manna**
Assistant Professor of Mathematics
St. Joseph's College (Autonomous), Trichy

Day 2 (11.02.2025)

- 09.30 am : Session 3: **Stochastic Processes**
Resource Person: **Dr. S. Ithaya Ezhil Manna**
Assistant Professor of Mathematics,
St. Joseph's College (Autonomous), Trichy
- 12.30 pm : Lunch
01.30 pm : Session 4: **Integral Equations - I**
Resource Person: **Dr. V. Vairaperumal**
Assistant Professor of Mathematics,
St. Joseph's College (Autonomous), Trichy
- 03.15 pm : Session 5: **Integral Equations - II**
Resource Person: **Dr. J. Maria Joseph**,
Assistant Professor of Mathematics,
St. Joseph's College (Autonomous), Trichy
- 04.30 pm : Valediction