



Centre for Mathematical and Statistical Sciences (CMSS)

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Science and Engineering Research Board (SERB) of the Department of Science and Technology, Government of India (DST) – Sponsored **12th SERB School on Matrix Methods and Fractional Calculus** (15 June 2015 to 10 July 2015, Four Weeks)

Organized by the **Centre for Mathematical and Statistical Sciences (CMSS)** in collaboration with the **Kerala State Council for Science, Technology and Environment (KSCSTE)** and **Kerala Forest Research Institute (KFRI), Peechi**

Applications are invited to the all-India SERB School; 30 seats, all expenses met by SERB (DST); closing date of applications: **15 April 2015**.

Eligibility: Young faculty below 35 years of age, post-doctoral fellows, research scholars, M.Sc. graduates, M.Phil. students, and if seats are available then a few final year M.Sc. students will be admitted.

Minimum qualification: B.Sc. (with Mathematics as a subject), M.Sc. degree or final year in M.Sc. programme in Mathematics/Statistics/Theoretical Physics/Theoretical Computer Science. **Desirable:** Good background in calculus; exposure to basic probability and statistics.

Topics to be covered: Vector–matrix differential operators, Jacobians of matrix transformations, matrix-variate functions, optimization of quadratic and bilinear forms, multivariate analysis, fractional calculus, fractional differential equations and applications in different disciplines, fractional calculus of matrix-variate functions, generalized inverses and patterned matrices, matrix methods in differential equations, non-linear analysis.

Apply on plain paper to **The Director**, CMSS, with the following details: name, age, male/female, married/single, full postal address, e-mail, phone number, copies (not originals) of all certificates plus permission certificate if employed and send these details to cmspala@gmail.com with copy to directorcms458@gmail.com. Acknowledgement will be sent by e-mail. If acknowledgement by post is needed then enclose a self-addressed empty envelope with Rs 5 stamp affixed.

Faculty: Top researchers: Professors A. M. Mathai (Canada/India), H. J. Haubold (Austria), Serge Provost (Canada), R. B. Bapat (India), V. Daftardar-Gejji (India).

Lectures: Monday–Friday; 08.30–10.30, 14.00–16.00. Problem-solving sessions + coffee: 10.30–13.00, 16.00–18.00; no lectures on Saturdays and Sundays; free voluntary training in Tex, Latex, Maple on week-ends; class tests every week, cumulative grades appear in the course certificates. Participation certificates will not contain any grade. Those who wish to write NET examination may give Kochi (Ernakulam), Kerala, as a centre. Transportation will be provided on 21 June 2015.

Director