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CENTRE FOR MATHEMATICAL SCIENCES (CMS)

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DST – sponsored 10th SERC School on

Multivariable and Matrix-variable Calculus and Applications

2012 theme: **Optimization**

(16th April 2012 to 11th May 2012, four weeks)

Organized by the Centre for Mathematical Sciences (CMS) in collaboration with the Central University of Kerala (CUK) and the Centre for Interdisciplinary Mathematical Sciences of Banaras Hindu University (CIMS-BHU)

All-India selection: **30 seats**, all expenses met by DST, admission open to all irrespective of caste, creed, sex etc; closing date of applications: 29th February 2012

ELIGIBILITY: Young faculty below 35 years of age, research scholars, post-doctoral fellows, others interested in research

Minimum qualification: B.Sc (with Mathematics as a subject), M.Sc in Mathematics/ Statistics/ Theoretical Physics/ Theoretical Compute Science. Desirable: exposure to basic probability and statistics and good background in calculus

Topics to be covered: Multivariable and matrix-variable calculus. Basic ideas in probability and statistics. Fundamentals of fractional calculus and its applications. Mathai's pathway model and applications in various fields including reaction-diffusion problems. Order statistics and reliability models.

Apply on plain paper to the Director, CMS, 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. 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: Dr F. Mainardi (Italy), Dr H.J. Haubold (Austria), Dr A.M. Mathai (Canada/India), Dr D.V. Pai (IIT Bombay and IIT Gandhinagar). Additional proposed: Dr Yageen Thomas (Kerala), Dr T. Parthasarathy (Delhi), Dr K. Srinivas Rao (AP), Dr Anulekha Dhara (IIT Gandhinagar)

Lectures: Monday-Friday; 08.30-10.30, 14.00-16.00. Problem sessions + coffee: 10.30-13.00, 16.00-18.00; no lectures on Saturdays and Sundays; free voluntary training in Tex, Latex, Maple, Mathematica on week-ends; class tests every week, cumulative grades appear in the certificates.

Director