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Branch : Bapu Bazar, Udaipur
Type of Acc. : Saving
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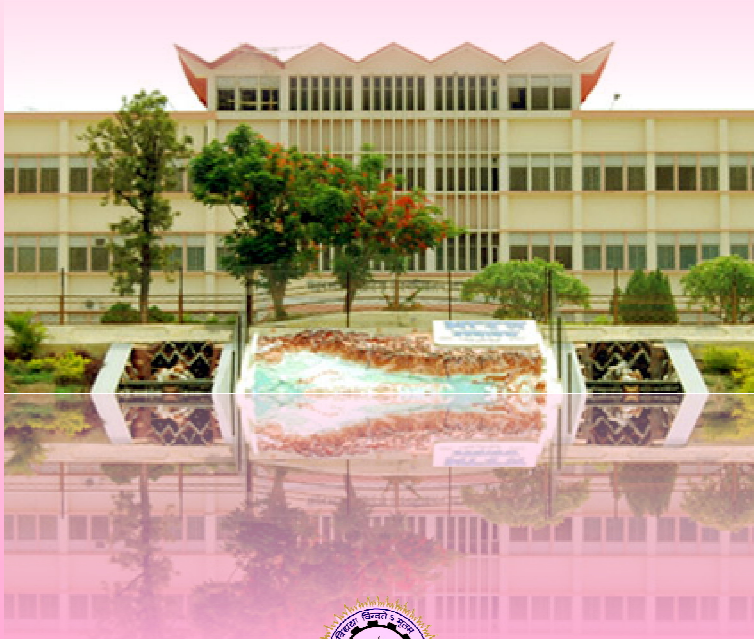
NATIONAL WORKSHOP
ON
ANALYSIS, DIFFERENTIAL EQUATIONS & APPLICATIONS

(Sponsored by UGC, DST*, INSA*, NBHM*)

(NWADA-2016)

February 25-27, 2016



Organized by
DEPARTMENT OF MATHEMATICS & STATISTICS
MOHANLAL SUKHADIA UNIVERSITY
(Accredited 'A' Grade by 'NAAC')
Udaipur (Raj.) 313 001

ABOUT UDAIPUR

Udaipur, the capital of the former princely state of Mewar is a beautiful city in Rajasthan, India. Udaipur city is also referred to as the "Venice of the East", the "Most Romantic City of India" and the "Kashmir of Rajasthan". Udaipur the “City of Lakes” is one among the most romantic and most beautiful cities of India. The city of Dawn, Udaipur is a lovely land around the azure water lakes, hemmed in by the lush hills of the Aravalis. A vision in white drenched in romance and beauty, Udaipur city of Rajasthan state is a fascinating blend of sights, sounds and experiences - an inspiration for the imagination of the poets, painters and writers. Udaipur's kaleidoscope of fairy-tale palaces, lakes, temples, gardens and narrow lanes strewn with stalls, carry the flavor of heroic past, epitomizing valor and chivalry. Their reflection in the placid waters of the Lake Pichhola is an enticing sight.

Udaipur is a popular tourist destination in India. The lakes, palaces and lively workspaces and culture attract foreign and domestic visitors. It is a favourite marriage destination. Many celebrities, including film stars, business families, politicians chose Udaipur to hold marriage ceremonies and parties. Udaipur have three interconnected lakes - the Fateh Sagar Lake, the Lake Pichhola and the smaller Swaroop Sagar Lake; along with forts, palaces, temples, gardens, mountains and narrow lanes lines withdrawn with stalls, relives the reminisces of a heroic past, valor and chivalry. Udaipur city is easily accessible from all the major cities of India including Delhi, Mumbai, Ahmedabad and Jaipur.

ABOUT DEPARTMENT

The Post-Graduate Department of Mathematics and Statistics was established in the year 1964 under the stewardship of eminent mathematicians the then Hon'ble Vice-Chancellor Prof. G. S. Mahajani and Head of the Department Professor S. P. Kaushik along with the establishment of University of Udaipur which was renamed as Mohanlal Sukhadia University in the year 1982.

OBJECTIVES

The Fourier-Laplace transform converts a linear constant coefficient Partial Differential Equation $P(D) = f$ on P^d to an equation $P(x)\, u\hat{} = f\hat{}$, for the transforms $u\hat{}$, $f\hat{}$ of u and f respectively, so that solving $P(D) = f$, just amount to division by polynomial $P(x)$. The practical application was suspect and ill understood, however, until theory of distribution provided a basis for a logically consistent theory. There after, it becomes the Fourier-Laplace method for solving initial-boundary problem for standard PDE. The technique of pseudo-differential operator extends the Fourier-Laplace method to cover PDE with variable coefficient and to apply to more general compact and non compact domains or manifold with boundary. The theory of pseudo-differential operators has its roots in Physics, Engineering, and Mathematics.

Main Objective of the workshop is to provide ample opportunities to the Indian researchers/ scientists for collaborating with other experts and to motivate the Indian researchers to work on various aspects of Analysis and Differential Equations, which have applications in various branches of Mathematics, Engineering, Astronomy, Astrophysics, Medical Imaging etc. Plenary lectures, invited talks and paper presentations etc. will also provide an opportunity to the young researchers/academicians to interact with the experts and resource persons from other parts of the country in their respective fields and to update themselves with the latest in the fields of analysis and differential equations with their applications.

THRUST AREAS

Functional analysis, Harmonic analysis, Wavelets, Frames, Differential geometry, Relativity and Cosmology, Differential equations, Boundary value problems, Eigenvalue problems with their application in Brain science and other related concepts and applications.

ACCOMMODATION

The out station participants will be provided free boarding and lodging facility as per the availability. Accommodation can be arranged on request in twin share basis. Since Udaipur is a tourist place, therefore participants are requested to intimate their participation well in time.

TRAVEL SUPPORT

Travel support may be provided to limited participants only (Second class sleeper/ bus for the shortest route). *It can be extended to all the registered participants depending on the availability of funds from DST/INSA/NBHM. However permanent faculty members are requested to seek travel assistance from their parent institute.

PAPER PUBLICATION & PROCEEDINGS

The organizing committee invites the original research papers for presentation in the workshop. The contributed full length papers (after a peer review process) will be published in a special issue of the online journal "JCBPSC" (ISSN No. : E-2249-1929)/ "JECSET" (ISSN No.: E-2278-179X). The corresponding announcement in this regard will be made at the time of workshop. (For formatting of presented paper, please visit website: **www.jcbsc.org**).

DEADLINES

Abstract Submission : **February 10, 2016**
(along with registration fees)
Acceptance : **February 12, 2016**
Full Paper Submission: **February 20, 2016**

REGISTRATION FEES

Academics / Institute Delegates : Rs. 1000/-
Research Scholars / Students : Rs. 700/-
Accompany Person : Rs. 700/-

D.D. should be made in favor of **Head, Department of Mathematics and Statistics, University College of Science, MLSU, Udaipur** payable at **Udaipur** or it can be deposited through Bank transfer.